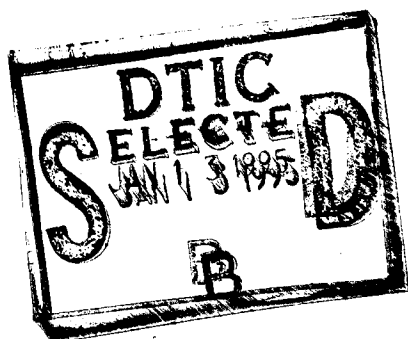




# ***Yuma I Site Characterization and Data Summary***



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## FOREWORD

SWOE Report 94-3, was prepared by C.D. Hahn of U.S. Army Engineer Waterways Experiment Station, Vicksburg, Mississippi.

This report is a contribution to the Smart Weapons Operability Enhancement (SWOE) Program. SWOE is a coordinated, Army, Navy, Marine Corps, Air Force and ARPA program initiated to enhance performance of future smart weapon systems through an integrated process of applying knowledge of the broadest possible range of battlefield conditions.

Performance of smart weapons can vary widely, depending on the environment in which the systems operate. Temporal and spatial dynamics significantly impact weapon performance. Testing of developmental weapon systems has been limited to a few selected combinations of targets and environmental conditions, primarily because of the high costs of full-scale field tests and limited access to the areas or events for which performance data are required.

Performance predictions are needed for a broad range of battlefield environmental conditions and targets. Meeting this need takes advantage of significant DoD investments by Army, Navy, Marine Corps and Air Force in 1) basic and applied environmental research, data collection, analysis, modeling and rendering capabilities, 2) extensive target measurement capabilities and geometry models, and 3) currently available computational capabilities. The SWOE program takes advantage of these DoD investments to produce an integrated process, the SWOE Process.

SWOE is developing, validating, and demonstrating the capability of the SWOE Process to handle complex target and environment interactions for a broad range of battlefield conditions. SWOE is providing the DoD smart weapons and autonomous target recognition (ATR) communities with a validated capability to integrate measurements, information bases, modeling, and simulation techniques for complex environments. This is a DoD-wide partnership that works in concert with advanced weapon system developers and major weapon system test and evaluation programs.

The SWOE program started in FY89 under Balanced Technology Initiative (BTI) sponsorship. Present sponsorship is by the U.S. Army Corps of Engineers (lead service), the individual services, and the Joint Test and Evaluation (JT&E) program of the Office of the Director of Test & Evaluation, Office of the Under Secretary of Defense OUSD(A/DT&E).

The Joint Test Director is Dr. J.P. Welsh. The Deputy Test Directors are: (Army) LTC Jerre Wilson and (Air Force) Maj Richard Jennings. The Integration Manager is Mr. Richard Palmer. The Modeling Configuration Manager is Dr. George G. Koenig.

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13. ABSTRACT (Maximum 200 words)  <p>The primary purpose of the Smart Weapons Operability Enhancement (SWOE) Joint Test and Evaluation Program is to validate the SWOE scene generation process. Once validated, this process will reduce, if not eliminate, the design-test-redesign approach to smart weapon development. Using the SWOE process, smart weapons designers will be able to test their sensor algorithms on simulated scenes with a greater degree of variability than is often presented during the test phase of the design process. The SWOE process will also allow for the smart weapons designs to be tested against different environments without the need for expensive and time-consuming data collection exercises.</p> <p>This report describes the site of the Yuma 1 data collection exercise, the data collection plans and techniques used, and the data collected. The data collection period covered 47 days from meteorological, thermal, infrared, and other environmental data collected by the U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.</p>				
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# Preface

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The data collection activities reported herein were conducted by the U.S. Army Engineer Waterways Experiment Station (WES) to characterize the site and scene conditions during the Smart Weapons Operability Enhancement (SWOE) Joint Test and Evaluation (JT&E) Yuma 1 exercise conducted at Yuma Proving Ground, AZ, from 15 March 1993 to 30 April 1993. It was funded by the Department of Defense SWOE JT&E Program Office, Hanover, NH. Dr. J. Pat Welsh was the Joint Test Director.

WES has prepared three related reports in support of the Yuma 1 exercise for the SWOE JT&E Program. These are as follows:

- a. "Yuma 1 Information Base for Generation of Synthetic Thermal Scenes"
- b. "Yuma 1 Site Characterization and Data Summary"
- c. "Analysis of Thermal Imagery Collected at Yuma 1, Yuma Proving Ground, Arizona"

This study was conducted under the general supervision of Dr. John Harrison, Director, Environmental Laboratory (EL), WES; Dr. Robert M. Engler, Chief, Natural Resources Division (NRD), EL; Mr. Harold W. West, Chief, Environmental Characterization Branch (ECB), NRD; and under the direct supervision of Mr. Charles D. Hahn, WES project coordinator. Mr. Hahn prepared this report. Field support was provided by Messrs. Thomas Berry, Salvador Rivera, Jr., M. Joe Wooley, Clarence Currie of ECB, EL, and Messrs. David Leese and Paul Dew of Instrumentation Services Division, WES.

At the time of publication of this report, Director of WES was Dr. Robert W. Whalin. Commander was COL Bruce K. Howard, EN.

# Conversion Factors, Non-SI to SI Units of Measurement

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Non-SI units of measurement used in this report can be converted to SI units as follows:

Multiply	By	To Obtain
degrees (angle)	0.01745329	radians
inches	2.54	centimeters

# 1 Introduction

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The Smart Weapons Operability Enhancement (SWOE) Joint Test and Evaluation (JT&E) Program is a coordinated multiservice effort to address problems related to smart weapon system development, test, and evaluation (DT&E) in the worldwide range of battlefield environment conditions. The thrust of the SWOE Yuma 1 exercise was to collect environmental data necessary to generate synthetic thermal and millimeter wave (MMW) scenes and to collect thermal and MMW data for use in the validation of the SWOE synthetic scene generation process.

## Background

With the reduction in armed forces personnel in the U.S. military, smart weapons are being required to play an ever increasing role in modern warfare. Current development, test, and retest approaches to smart weapons development are becoming more expensive because of the lengthy field data collections and tests necessary to improve system performance. The purpose of the SWOE JT&E Program is to validate simulation procedures for generating realistic synthetic scenes for the candidate infrared (IR) and MMW sensors and sensor systems. The generated synthetic scenes can be convolved with the appropriate sensor characteristics and then used to design and evaluate weapon system targeting algorithms. This approach to smart weapons DT&E represents a radical change in current methods and can drastically reduce the costs associated with the testing of candidate smart weapon systems. The SWOE scene generation process uses a high-resolution digital topographic elevation data set with the corresponding vegetation and terrain feature data, and meteorological data from the desired area to generate three-dimensional (3-D) scenes from any view geometry desired. This end-to-end scene generation process allows weapon system targeting algorithms to be evaluated against a variety of background and meteorological conditions and viewing geometries without being limited to what is available during a real field program.

## **Approach**

As part of the SWOE JT&E Yuma 1 data collection exercise, the U.S. Army Engineer Waterways Experiment Station (WES) provided quantitative characterization of vegetation and topographic features, collected continuous surface temperature data on dominate terrain features, and collected high-resolution IR image data of selected terrain features in the two areas of interest. WES also provided survey control of all SWOE instrumentation including fiducial arrays used to align and adjust the IR- and MMW-based data collection systems used by the Airborne Seeker Evaluation System (ASETS) of the 46 Test Wing, U.S. Air Force, Eglin Air Force Base (EAFB), FL. In addition to this, WES collected periodic site condition color video data to document the changes in the site conditions during the 45-day SWOE data collection exercise.

## **Scope**

This report discusses the measurement procedures used by WES during the data collection effort and presents data collected in support of the SWOE JT&E Yuma 1 exercise.

## 2 Site Characterization Procedures

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WES was responsible for characterization of site conditions in support of the SWOE Yuma 1 exercise conducted 15 March 1993 to 30 April 1993. Measurements were made to describe the vegetation, soil, and topography of the site. The measurement procedures used by WES are described in the following paragraphs.

The SWOE Yuma 1 data collection area was divided into two primary data collection areas on either side of a large ridge where the SWOE ground-based imaging equipment was located. The western area was to be imaged using the tower-based EAFB Thermal Imaging Processing System IR equipment and was located in between SWOE Sites E and F (West area) (see Figure 1). The terrain in this area consisted of several small secondary washes in between two ridges. There was very little vegetation in this area except along the washes. The eastern area was to be imaged using IR cameras from the U.S. Army Research Laboratory (ARL) Battlefield Environment Division and from the U.S. Army Engineer Cold Regions Research and Engineering Laboratory (CRREL). This area (East area) was located in the area of SWOE Sites B, C, and D (Figure 1); the terrain consisted of a primary wash and a smaller secondary wash. The eastern area was more vegetated than the western area with dense vegetation along the washes and scattered shrubs and grasses in the flat terrain between the two washes. Each of the SWOE sites was instrumented to collect meteorological, soil temperature profile, and surface temperature data using equipment provided by the ARL, CRREL, and WES. A more detailed description of the data collected by WES in support of the Yuma 1 exercise follows.

### Surface Temperature Measurements

WES deployed two types of arrays to measure the surface temperature of the data collection area. The first type, surface temperature array, was deployed to measure the near-surface ( $\approx 1$  cm) conditions. This type of array consisted of eight thermistors and four noncontact infrared (8- to 12- $\mu\text{m}$ ) thermometers (staring radiometers) deployed according to a random walk plan

provided by the SWOE JT&E Program Office. These arrays were deployed at Site B (UTM coordinates 756321E 3650883N) and Site E (UTM coordinates 756079E 3650893N). The other two arrays, feature arrays, consisted of eight staring radiometers deployed to measure the apparent temperature of selected terrain features near Sites B and D (UTM coordinates 756398E 3650801N). All of these arrays were equipped with a telemetry link to transmit the data to the nearby WES field data collection facility (FDCF), where it was graphically displayed in near real-time to monitor current site conditions and to serve as a quality control measure. Collected at 5-min intervals, data were then stored in a Campbell Scientific data logger and were transmitted hourly.

### **Surface soil temperature arrays**

Surface temperature arrays were deployed at SWOE Site B (Figures 2 and 3) and SWOE Site E (Figures 4 and 5). Each sensor was placed according to a SWOE deployment plan. This plan was developed using a random number of paces between 1 and 10 for the distance and a second random number for the compass direction using the last sensor location as the starting point. The first eight locations were assigned to thermistors placed approximately at a 1-cm depth (all sensor cables were buried). Staring radiometers were used to measure the surface temperature of the remaining four locations. Each staring radiometer was positioned to minimize shadowing. The staring radiometers were equipped with a 4-deg<sup>1</sup> field of view (FOV) lens and were placed on small tripods approximately 0.5 m above the terrain. The locations of these sensors are included in Tables 1 and 2. Photographs of the sensor locations, shown in Appendix A, depict the terrain conditions prior to and at the end of the 45-day data collection period. It is noteworthy that the site conditions reflect the wet desert bloom period at the start of the data collection program and the dry conditions at the end of the data collection period.

### **Feature arrays**

Sixteen different terrain features (two groups of eight) were instrumented with staring radiometers. These two arrays are shown in Figures 6 and 7 (SWOE Site B) and Figures 8 and 9 (SWOE Site D). These staring radiometers, also equipped with 4-deg FOV lenses, were placed on small tripods and positioned in a manner to minimize shading of the feature being measured. The locations and descriptions of the features instrumented are included in Tables 3 and 4. Photographs of the features instrumented with these arrays are included in Appendix B. These photographs show the condition of the terrain feature at the beginning and at the end of the 45-day data collection period.

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<sup>1</sup> A table of factors for converting non-SI units of measurement to SI units is presented on page vi.

**Table 1**  
**Site B Surface Temperature Array Sensor Locations**

Channel Number	Sensor	Coordinates		Terrain
		East	North	
1	THRM	756322.3	3650885.0	Grassy area
2	THRM	756320.6	3650884.3	Grassy area
3	THRM	756328.7	3650886.5	Grassy area
4	THRM	756327.5	3650884.4	Bare soil
5	THRM	756332.9	3650883.8	Gravelly soil
6	THRM	756332.8	3650874.4	Gravelly soil
7	THRM	756336.9	3650880.8	Small plants
8	THRM	756332.1	3650872.1	Gravelly soil
9	S.R.	756327.2	3650872.4	Small plants
10	S.R.	756327.9	3650877.9	Small plants
11	S.R.	756328.6	3650880.4	Plant/soil mix
12	S.R.	756326.7	3650880.6	Gravelly soil

**Table 2**  
**Site E Surface Temperature Array Sensor Locations**

Channel Number	Sensor	Coordinates		Terrain
		East	North	
1	THRM	756073.1	3650884.4	Rocky soil
2	THRM	756073.8	3650882.4	Sandy soil
3	THRM	756081.2	3650883.6	Rocky soil
4	THRM	756077.4	3650883.6	Sparse small vegetation
5	THRM	756081.5	3650877.7	Rocky soil
6	THRM	756080.3	3650881.5	Rocky soil
7	THRM	756076.7	3650881.9	Rocky soil
8	THRM	756073.1	3650880.7	Rocky soil
9	S.R.	756078.4	3650880.3	Rocky soil
10	S.R.	756076.1	3650877.3	Gravelly soil
11	S.R.	756071.6	3650885.5	Gravelly soil
12	S.R.	756073.2	3650879.6	Desert pavement



**Table 3**  
**Site B Feature Array Sensor Locations**

Channel Number	Coordinates		Description
	East	North	
1	756358.8	3650826.0	50-cm high grass
2	756361.4	3650819.5	1-m-diam light green bush
3	756362.3	3650823.3	Sandy wash bottom
4	756363.6	3650821.7	10-cm-high grass
5	756370.3	3650822.8	Creosote bush
6	756364.7	3650828.4	Soil wash bottom
7	756366.4	3650829.7	Creosote bush
8	756362.8	3650829.1	Driftwood log

**Table 4**  
**Site B Feature Array Sensor Locations**

Channel Number	Coordinates		Description
	East	North	
1	756309.3	3650843.7	Creosote bush
2	756318.7	3650850.8	0.5-m light green oval bush
3	756320.4	3650850.9	Bush #113
4	756322.7	3650849.3	Bush #111
5	756320.6	3650848.9	Bush 314
6	756317.0	3650843.4	30-cm thorny leafy bush
7	756315.5	3650846.4	Grass rock mixture
8	756314.0	3650847.6	Rocky wash bottom

## Soil Moisture Measurements

WES collected daily soil samples at each of the six meteorological sampling sites (Site A-coords 756233E 3651020N, Site B, Site C-coords 756386E 3650889N, Site D, Site E, and Site F-coords 756037E 3650785N) and measured the soil moisture using a Troxler Model 4640 Thin Layer Density Gauge (Figure 10), a Soiltest Speedy Moisture Gauge (Figure 11), and an oven dry method (Figure 12). The actual location for the soil sample was determined using another random walk procedure similar to the one described for the surface temperature arrays. Once the location was determined, surface vegetation

was removed from the site and the surface leveled for positioning of the Troxler. A reading was taken (using the Troxler), and two small tins were filled with soil from the site. Additional tins of soil were collected from the same site by CRREL personnel. The tins were then sealed with plastic tape and placed on ice to minimize loss of moisture while the remainder of the samples were collected (within a 1-hr period). When all the samples had been collected, one sample from each site was weighed using a triple beam balance and placed in the oven. Samples were dried in the oven for 24 hr, reweighed, then returned to the oven to dry for an additional 24 hr. If the weight of the tin remained constant over the second 24-hr period, then the moisture was calculated using a wet weight basis. If the sample weight had changed during the second 24-hr period, the sample was left in the oven an additional 24 hr. The second sample of soil collected at each site was used to determine the moisture using the Speedy Moisture Gauge. All moisture readings were recorded on soil moisture data sheets and periodically submitted to the SWOE data management team.

The four primary surface soil types within the test area were desert pavement (characterized by a layer of burnt black rock and gravel with a fine silty clay sand), pavement wash (characterized by some natural colored gravel in lower areas of the desert pavement), secondary washes (characterized by gravel/soil mix with some vegetation cover), and developed washes (where very little soil existed in the surface layers down to 3 to 4 in.) (Sabol et al. 1989). Soil type characterizations had previously been conducted by WES; these results are presented in Appendix C.

## **Vegetation Measurements**

WES also collected other types of environmental data associated with the Yuma 1 data collection exercise. During the period 8-15 January, WES collected data on the vegetation characteristics of approximately 300 trees and shrubs in the two primary ground areas of interest (Sites B-C-D and E-F). Measurements included height, width, length, stem diameter, and location. Detailed measurements of each major plant species present were performed to measure branch length and angle, number of leaves per stem, and number of stems per plant. Basic plant measurements (height, crown diameter, stem diameter, species, etc.) were made on approximately 1,800 plants within the overall data collection area. WES also collected data on vegetation ground cover and topographic microgeometry at four locations in the Site B-C-D area and four locations in the Site E-F area. Vegetation cover was characterized using a 1-m square grid. The stems contained in the grid were counted and recorded.

## Topographic Measurements

To characterize the topography of the SWOE Yuma 1 data collection area, a combination of macrogeometric and microgeometric measurement techniques were used. Macrogeometry was characterized by augmenting the existing topographic elevation data set (Sabol et al. 1989) by surveying approximately 600 points in the data collection area. This survey used Global Positioning Satellite (GPS) survey techniques to establish local 3-D control in the area and the traditional terrestrial techniques to determine the 3-D surface geometry. These survey points were then used to develop the high-resolution (1-m) topographic elevation array (Ballard 1994). Topographic microgeometry data were collected in both of the imaging areas (East and West Areas) by leveling a 1-m<sup>2</sup> grid and measuring the distance to the ground at 10-cm intervals to the ground surface. The locations of these 1-m grids were also determined.

## Image Measurements

WES collected IR (3- to 5- $\mu$ m and 8- to 12- $\mu$ m) data in a reduced subset of the planned array of 188 SWOE imaging missions. This plan is presented in Figure 13. WES used an Agema 900 thermovision system to collect high-resolution image data of several terrain features. The 900 system consists of two imagers (3- to 5- $\mu$ m and 8- to 12- $\mu$ m wave bands) connected to a Motorola 68030-based computer optimized to run the image collection/processing software. The specifications for these cameras are shown in Table 5. The 900 cameras, shown in Figures 14 and 15, were mounted on a computer-controlled mount (Figure 16) that allowed for 360 deg of rotation and approximately 70 deg of tilt. This mount, which was attached to the boom of the WES boom truck (Figure 17), was programmed to allow locating and imaging specific features in the field of regard. The procedure used during the imaging period was as follows:

- a. WES personnel would raise the boom sufficient to obtain an unobstructed view of the WES passive blackbodies. The WES passive blackbodies were located approximately 35 m from the imager. They are constructed from an 18-in. square plate of 1/2-in. steel painted black, instrumented with thermistors on both sides of the plate, and housed in a wooden frame. In use, one blackbody is shaded from the sun by a plywood enclosure and the other left unshaded. This provides a suitable temperature difference and is sufficient for determining the accuracy of the WES IR imaging system. The cameras were then pointed in the direction of blackbodies, and image data were collected in both wave bands.
- b. The camera boom was then extended to its full height (55 ft), and the cameras were aligned on a boresight target (a Coleman Lantern). This step ensured that the relative angles to each of the features were correct.

<b>Table 5 Agema 900 Camera Specifications</b>		
<b>Scanner</b>	<b>900 SW</b>	<b>900 LW</b>
Detector	2xInSb Cryogenically cooled	MCT Cryogenically cooled
Spectral response	2 to 5.6 $\mu\text{m}$	8 to 12 $\mu\text{m}$
Frame frequency	15 and 30 Hz Selectable	15 and 30 Hz Selectable
Line frequency	2.5 kHz	2.5 kHz
Lines/frame	136	136
Sample/line	272	272
Temperature range	-20 to -500 $^{\circ}\text{C}$	-30 to 1,500 $^{\circ}\text{C}$
Sensitivity at 30 $^{\circ}\text{C}$	0.1 $^{\circ}\text{C}$	0.08 $^{\circ}\text{C}$
Accuracy	$\pm 1$ $^{\circ}\text{C}$ or $\pm 1\%$	$\pm 1$ $^{\circ}\text{C}$ or $\pm 1\%$
Repeatability	$\pm 0.5$ $^{\circ}\text{C}$ or $\pm 0.5\%$	$\pm 0.5$ $^{\circ}\text{C}$ or $\pm 0.5\%$
Dynamic range	12 bit (4,096 Levels)	12 bit (4,096 Levels)

- c. The cameras were then positioned on the first terrain feature within the West Area (see Figure 1). At the predetermined time, image data were collected on each of five features in this area; then the cameras were repositioned to collect image data in the East Area (see Figure 1). At the designated time, the five features were imaged within this area. This process continued until the end of the 1-hr mission.
- d. At the conclusion of each 1-hr data collection period, the boom was lowered so that the blackbodies could be reimaged again, except when two 1-hr missions were scheduled back to back. In this case, the ending blackbody images of the first mission and the beginning blackbody images of the second mission were omitted.

WES collected data for three diurnal periods during the Yuma 1 data collection period. These occurred on 24 March, 8 April, and 26 April. The procedure for these missions resembled the one used for the regular SWOE missions except blackbody images were obtained only during long breaks in the imaging session.

## Thermal Properties Measurements/Data

Determining the thermal properties of many naturally occurring materials is a difficult task using measurement techniques available in the field (Turner 1986). Most of the thermal properties used in the SWOE scene generation

process have been derived from models in which the surface roughness, moisture content, and porosity factor into determining thermal emissivity and surface albedo. Material properties such as chemical composition of the soils, soil density, and particulate size were determined using data from previous studies in the area or data available from soil surveys performed by the U.S. Department of Agriculture. Thermal properties for vegetation in the area were derived from models that use plant geometry, stem density, and leaf count information. These models were developed by the Naval Weapons Center and Willow Creek Laboratory (Turner 1985). The models were analyzed to determine data collection requirements and the relative importance of physically measured data versus modeled to better assess the minimum data collection requirements.

## Summary of Meteorological and Soil Temperature Instrumentation Measurements

Meteorological, soil temperature profile, and surface temperature measurements were acquired at each of the six SWOE sites (A, B, C, D, E, and F), though not all sites were instrumented to collect all types of data. Table 6

<b>Table 6 Parameter Measurements Collected at Each Site</b>						
<b>Parameter</b>	<b>Site A</b>	<b>Site B</b>	<b>Site C</b>	<b>Site D</b>	<b>Site E</b>	<b>Site F</b>
Barometric pressure	No	No	Yes	No	Yes	No
Air temperature	Yes	Yes	Yes	Yes	Yes	Yes
Relative humidity	Yes	Yes	Yes	Yes	Yes	Yes
Wind speed	Yes	Yes	Yes	Yes	Yes	Yes
Wind direction	Yes	Yes	Yes	Yes	Yes	Yes
Visibility	No	Yes	Yes	No	Yes	No
Rain rate	No	No	Yes	Yes	Yes	No
Accumulative rainfall	No	No	Yes	Yes	Yes	No
Total solar flux	No	No	No	Yes	Yes	No
Direct solar flux	No	No	Yes	Yes	No	No
Diffuse upwelling solar flux	Yes	Yes	Yes	Yes	No	Yes
Downwelling IR flux	No	No	Yes	Yes	Yes	No
Upwelling IR flux	Yes	Yes	Yes	Yes	Yes	Yes
Soil temperature profile	Yes	Yes	Yes	Yes	Yes	Yes
Soil surface temperature	Yes	Yes	Yes	Yes	Yes	Yes

shows the parameter measurements collected at each of the sites. Instrumentation from ARL, CRREL, and WES was used to collect this data. As mentioned previously, WES collected surface temperature data at Sites B and E. ARL collected meteorological data at Sites A, B, E, and F. CRREL collected soil temperature profile data at each of the sites and meteorological data at Sites C and D. In addition, ARL collected meteorological data in the upper atmosphere and data relating to cloud height and distribution. SPARTA, Inc., operated an all-sky imager to supplement the cloud distribution data collected by ARL. All data were collected at 1-min intervals except the surface temperature data collected by WES, which was gathered at 5-min intervals to preserve battery power. Further, on the roof of the FDCF, WES deployed a weather station that collected data on air temperature, relative humidity, barometric pressure, solar radiation, wind speed, wind direction, and precipitation. These data were used to monitor environmental conditions and to operate the IR sensors. These data were not included in the SWOE database.

### 3 Data Presentation

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The objective of the SWOE Yuma 1 data collection was to capture the full range of environmental conditions during the “desert bloom” period. Because of generous rainfall in the early winter months, the desert test area was green and lush with growing (green) vegetation. Much of the desert pavement areas were sprouting a thin layer of grass and other small vegetation. The larger vegetation types were just beginning to enter the full bloom period and were vigorously growing. Over the course of the 45-day data collection period, the desert reached its peak bloom period, then dried out, and the vegetation in the area returned to a dormant (dry) state. The vegetation growing in the desert pavement regions had died back and either withered in place or blown away in the desert winds. The blooms on the larger species present had withered and dropped off, and the vegetation assumed a more dormant state. One rain event (0.26 in. on 27 March) occurred during the period and briefly raised surface soil moisture levels above 10 percent. The vegetation in the area began to die back after this rain; by the end of the data collection period, the vegetation resembled a typical desert area. During the Yuma 1 exercise, WES collected significant amounts of data. This data included surface temperature data at two sites consisting of 12 sensors sampling at 5-min intervals for 45 days, and background feature temperature data at two sites consisting of 8 sensors sampling at 5-min intervals for 45 days. WES also collected daily soil moisture data at each of six sites, as well as survey data locating the exact position of over 1,900 plants, several fiducial points (large orange panels, radar reflectors, and propane burners), and the instrumentation deployed for the exercise.

#### Temperature Data

Temperature data collected at four sites are presented below. Two of these sites collected surface temperature data at 12 locations (using eight thermistors and four staring radiometers). The remaining two sites collected apparent temperature data for eight features using staring radiometers.

## **Surface temperature data**

At Site B, the surface temperature varied from a minimum of 8.84 °C to a maximum of 61.93 °C. At Site E, the surface temperature varied from a minimum of 8.14 °C to a maximum of 57.23 °C. These data were plotted daily. An example of this is shown in Figure 18; a complete set of these plots is included in Appendix D. One interesting note is that at Site E, Thermistor 1 was placed on the west side of the ridge, and this site received shading (because of the ridge) during the early morning hours.

## **Apparent temperature data**

The range of apparent temperatures for Site B-C-D as measured by WES sensors is presented in Tables 7 and 8. Data are plotted to produce a daily summary. An example is shown in Figure 19; a complete set of these plots is included in Appendix E.

## **Soil moisture data**

Soil moisture data for the six SWOE sites are summarized in Table 9. Three different sampling techniques were used to measure the soil moisture. Overall soil moistures were very low (<10 percent) except for immediately following the one rain event that occurred on 27 March. Additional moisture samples were collected on that day after the rain event. This set of moisture samples peaked at or about 10 percent for readings taken using the Speedy and the oven method at most sites. The Troxler reading peaked slightly lower, but this is due to the Troxler's sampling a very small volume of soil very near the soil surface. These data are shown in the vertical line on sample day 12 in Figures 20-25. This series of figures also graphically presents the time series data collected at each of the sites. The maximum, minimum, and average soil moistures for each of the sites are presented in Table 9. Complete data listings are included in Appendix F.

## **Other Environmental Data**

Data on geometric measurements of several representative trees and shrubs, locations of plants in the study area, supplementary meteorological data, locations of all the instrumentation and fiducial arrays, and microgeometry data of four representative locations in the East and West Areas, as well as small plant densities at each of these locations, were also collected. These data are presented below.



<b>Table 7</b> <b>Range of Apparent Temperatures (°C) at Site B</b>		
<b>Description</b>	<b>Minimum</b>	<b>Maximum</b>
Grass (1)	5.20	46.64
Brittle bush	4.63	38.53
Sandy wash	4.56	61.32
Grass (2)	5.56	52.99
Creosote bush (1)	4.41	38.60
Soil wash	2.89	59.55
Creosote bush (2)	5.71	41.59
Dead log	0.00	63.05

<b>Table 8</b> <b>Range of Apparent Temperatures (°C) at Site D</b>		
<b>Description</b>	<b>Minimum</b>	<b>Maximum</b>
Creosote bush	5.57	46.41
Brittle bush	3.11	36.50
Anderson lycium	5.10	40.75
Desert sage	4.24	45.88
Tar bush	4.33	45.03
White bur sage	6.34	45.55
Grass/rock mixture	5.84	48.88
Rocky wash	6.25	56.12

### **Plant characterization data**

WES surveyed, measured, and identified over 1,800 trees and bushes within the SWOE study area. Of these plants measured, 51.5 percent of the population were creosote bushes and 40.2 percent were a type of sagebush. Various other tree types (catclaws, palo verde, and mesquite) accounted for only 2.2 percent of the population. The plant population distribution is presented in Figure 26. There was one saguaro cactus in the study area. When examined on the basis of area covered, creosote bushes accounted for 52.9 percent of the area covered and sages 14.7 percent. Various trees accounted for 24.5 percent of the vegetated area. A graph of plant coverage is shown in Figure 27. Data on the plant locations, sizes, and species are included in Appendix G.

<b>Table 9 Range of Soil Moisture Conditions</b>				
<b>Site</b>	<b>Soil Moisture</b>	<b>Troxler, % Wet Weight</b>	<b>Speedy, % Wet Weight</b>	<b>Oven, % Wet Weight</b>
A	Minimum	0.4	1.1	1.8
	Maximum	9.8	11.4	13.0
	Average	2.5	3.1	3.6
B	Minimum	0.2	0.4	0.6
	Maximum	4.2	8.2	8.8
	Average	1.2	1.4	1.7
C	Minimum	0.6	0.9	0.0
	Maximum	4.4	13.1	11.9
	Average	1.6	2.3	2.7
D	Minimum	0.2	0.6	0.7
	Maximum	4.9	11.6	12.0
	Average	1.2	1.8	2.1
E	Minimum	0.4	0.8	0.7
	Maximum	6.2	11.1	12.9
	Average	2.0	2.6	3.2
F	Minimum	0.0	0.3	0.7
	Maximum	6.2	10.1	9.9
	Average	1.0	1.7	2.0

### **Instrumentation survey data**

A plot of the instrumentation and areas of interest is shown in Figure 1. WES used a combination of GPS survey and terrestrial survey techniques to establish local control and survey points. Data are presented in Appendix H.

### **Microgeometry data**

Microgeometry measured at each of four representative areas are described in Table 10. Figure 28 shows the 100- by 100-cm sampling array. Results of the microgeometry measurements are included in Appendix I. The data in this appendix are the distances from the grid to the surface. Figures 29-36 show each of the areas measured.

<b>Table 10</b> <b>Locations of Microgeometry Measurements</b>			
Grid Name	East Coordinate	North Coordinate	Terrain Type
East Grid 1	756352.6	3650872.9	Secondary wash
East Grid 2	756372.3	3650835.0	Vegetated secondary wash
East Grid 3	756446.6	3650808.4	Desert pavement
East Grid 4	756392.6	3650836.8	Primary wash
West Grid 1	756049.5	3650855.0	Bare soil
West Grid 2	756069.3	3650848.4	Grassy area
West Grid 3	756059.0	3650832.6	Desert pavement
West Grid 4	756084.7	3650837.3	Secondary wash

### Small plant density data

Small plant density data were also collected at each of the eight locations where microgeometry was measured. Table 11 presents this data. These plants counted were primarily small grasses and weeds and were typically 3 to 5 cm high. East Grid 4 was located in the primary wash, and no vegetation could grow in this region. Also, no vegetation was present in West Grids 1, 3, and 4. At the beginning of the data collection exercise, these areas were probably populated by the small grasses and other vegetation described earlier; but at the time these measurements were taken, the vegetation had completed its life cycle and blown away.

### Meteorological data

Air temperature varied from 9.03 to 36.43 °C with an average air temperature of 22.31 °C. Relative humidity varied from 2.99 to 87.88 percent with an average of 24.86 percent. Barometric pressure ranged from 29.03 to 29.58 in. of mercury with an average of 29.22 in. Solar radiation peaked at 1,042 W per square meter. The maximum recorded wind speed was 11.33 m per second with an average wind speed of 2.68 m per second. A total of 0.26 in. of rainfall occurred on 27 March. Daily extremes and means for each of these parameters are shown in Figures 37-41. These data were also plotted to produce daily summaries of the data, an example of which is shown in Figure 42. A complete set of these summaries is included in Appendix J. All data presented here were collected using the WES weather station. These data were not required by the SWOE data collection team.

<b>Table 11 Small Plant Density Data</b>	
<b>Grid Name</b>	<b>Plant Density, stems/m<sup>2</sup></b>
East Grid 1	30
East Grid 2	233
East Grid 3	10
East Grid 4	No plants in grid
West Grid 1	No plants in grid
West Grid 2	386
West Grid 3	No plants in grid
West Grid 4	No plants in grid

## Image Data

WES collected image data for 106 of the 188 planned SWOE missions. Three periods of 24-hr diurnal data were collected resulting in 20,280 of 21,360 image sets planned. The diurnals were collected on 24 March, 8 April, and 26 April. A typical 1-hr data collection period involved collecting five frames of features either in the West area (Site E-F) or the East area (Site B-C-D) at 12 randomly selected 1-min intervals. A listing of the pointing angles and features is included in Table 12. WES also collected four sets of video data within a field of regard (panoramas) of the entire data collection area. Visual, shortwave (SW) IR, and long wave (LW) IR images of these features are shown in Figures 43-52. A complete analysis of imagery collected is presented by Rivera (1994).

## Quality Control and Transfer of WES Data

All WES data received an intensive quality check prior to transfer to the SWOE data management team. Thermal data (surface temperature and feature) were plotted graphically in near real time to monitor sensor output and recorder function. Image data were visually analyzed prior to capture to ensure that the dynamic range was properly set. Survey data were plotted to produce a map of the data collection area and then ground checked to ensure accuracy. Soil moisture data were checked to ensure that the values were consistent and were within the expected range. Thermal data were stored on floppy disks and submitted daily to the SWOE data management team. Image data were stored on 90-megabyte Bernoulli disk and submitted to the SWOE

Table 12 WES Features and Point Angles					
Feature ID	Coordinates		Relative Angles		Description
	East	North	Azimuth	Elevation	
West 1	756023	3650816	69.29	-8.00	Sloped desert pavement
West 2	756063	3650829	72.74	-9.70	Flat desert pavement
West 3	756091	3650832	75.17	-10.57	Catclaw tree
West 4	756052	3650851	79.06	-9.25	Grassy area
West 5	756116	3650867	94.75	-11.70	Paloverde tree
East 1	756366	3650820	-119.29	-9.10	Texas sage
East 2	756352	3650822	-121.43	-9.22	Creosote bush
East 3	756379	3650826	-121.73	-8.07	Paloverde bush
East 4	759336	3650819	-120.81	-11.06	Grassy area
East 5	756363	3650839	-126.99	-9.10	Desert sage

data management team as the disk reached capacity. Survey data were transferred on floppy disk at the conclusion of the data collection exercise. Soil moisture data were recorded on worksheets, and copies were supplied to the SWOE data management team. All data collected during the SWOE Yuma 1 data collection exercise may be obtained by contacting the SWOE JT&E Program Office. WES data may be obtained by contacting WES directly.

## 4 Summary

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The objective of the SWOE Yuma 1 data collection period was to capture the full range of site and environmental conditions prior to, during, and following the "desert bloom" period. Because of ample winter rains in December and January, the desert foliage was greening up at the start of the data collection period. During data collection, conditions changed from emerging young vegetation, to full bloom (green foliage with flowers), to more typical dry brown dormant summer condition. WES collected a variety of environmental data to describe these conditions. The principal data collected were the 20,000+ thermal image data sets on the features in two areas of interest and thermal data at four locations (surface temperature and feature temperature) for 45 days at a rate of 1 record per 5-min interval (12,960 data records per site). WES also collected daily soil moisture data at each of the six sites using three different techniques. In addition, WES surveyed and measured the geometry of numerous trees, bushes, and shrubs. WES also surveyed the locations of the instrumentation arrays and supplemental elevation points within the site. Data obtained were transferred to the SWOE JT&E Program Office and will be used for validation of the SWOE scene generation process.

# References

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- Ballard, J. R., Jr. (1994). "Yuma 1 information base for generation of synthetic thermal scenes," Technical Report prepared by the U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS, for the Smart Weapons Operability Joint Test and Evaluation Program Office, Hanover, NH.
- Rivera, S., Jr. (1994). "Analysis of thermal imagery collected at Yuma 1, Yuma, Arizona," Technical Report prepared by the U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS, for the Smart Weapons Operability Joint Test and Evaluation Program Office, Hanover, NH.
- Sabol, B., Berry, T., Blount, C., and Carnes, B. (1989). "Environmental site characterization for the Wide Area Mine (WAM) Sensor Demonstration, Yuma Proving Ground - August 1989," Miscellaneous Paper EL-89-7, U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.
- Turner, R. E. (1985). "Thermophysical properties of natural surface materials," Interim Report, Science Applications International Corporation, Dayton, OH.
- \_\_\_\_\_. (1986). "Emissivity models of natural surface materials," Final Report, Science Applications International Corporation, Dayton, OH.

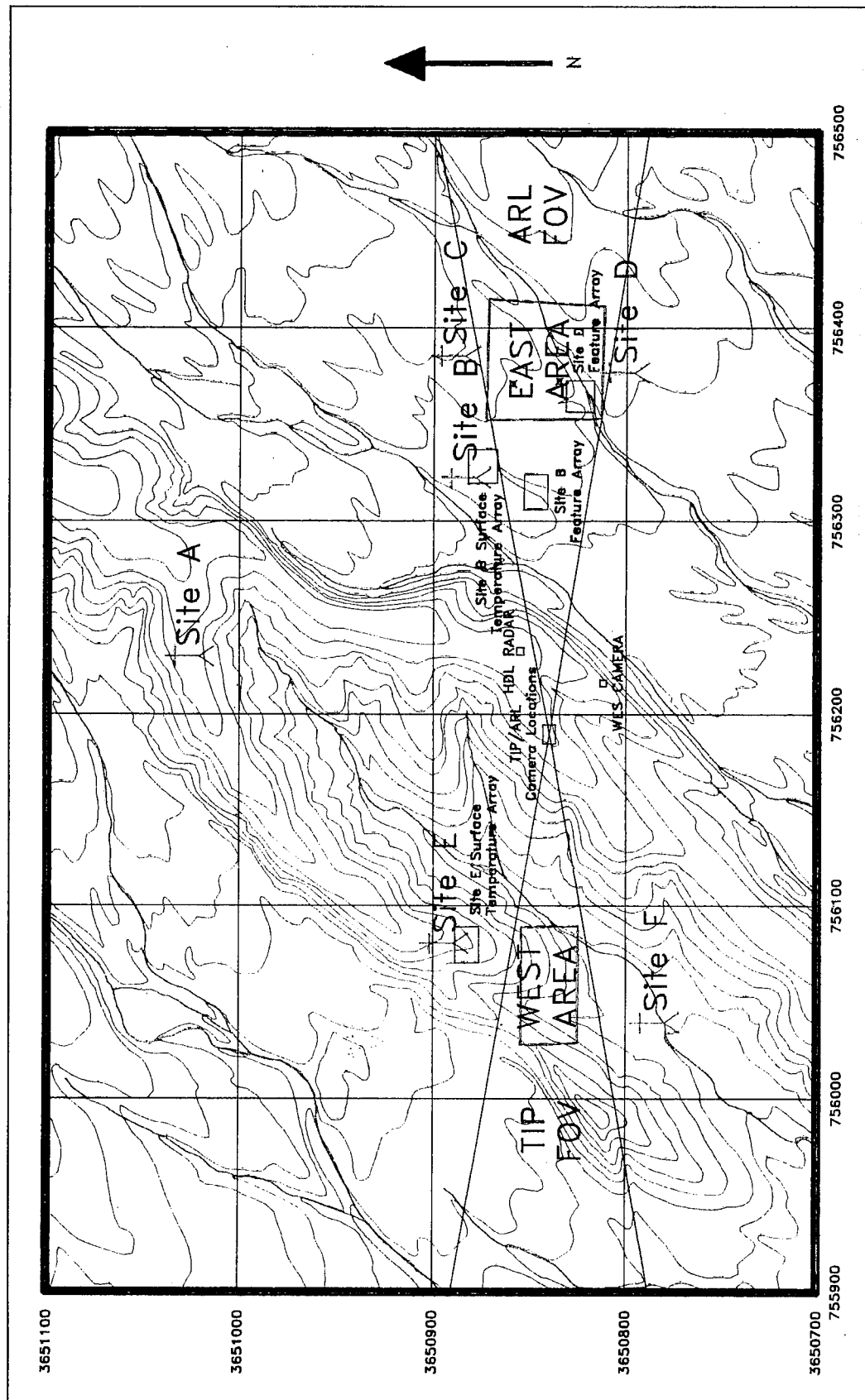


Figure 1. SWOE Yuma 1 site map





Figure 2. Site B thermal array, 15 March 1993

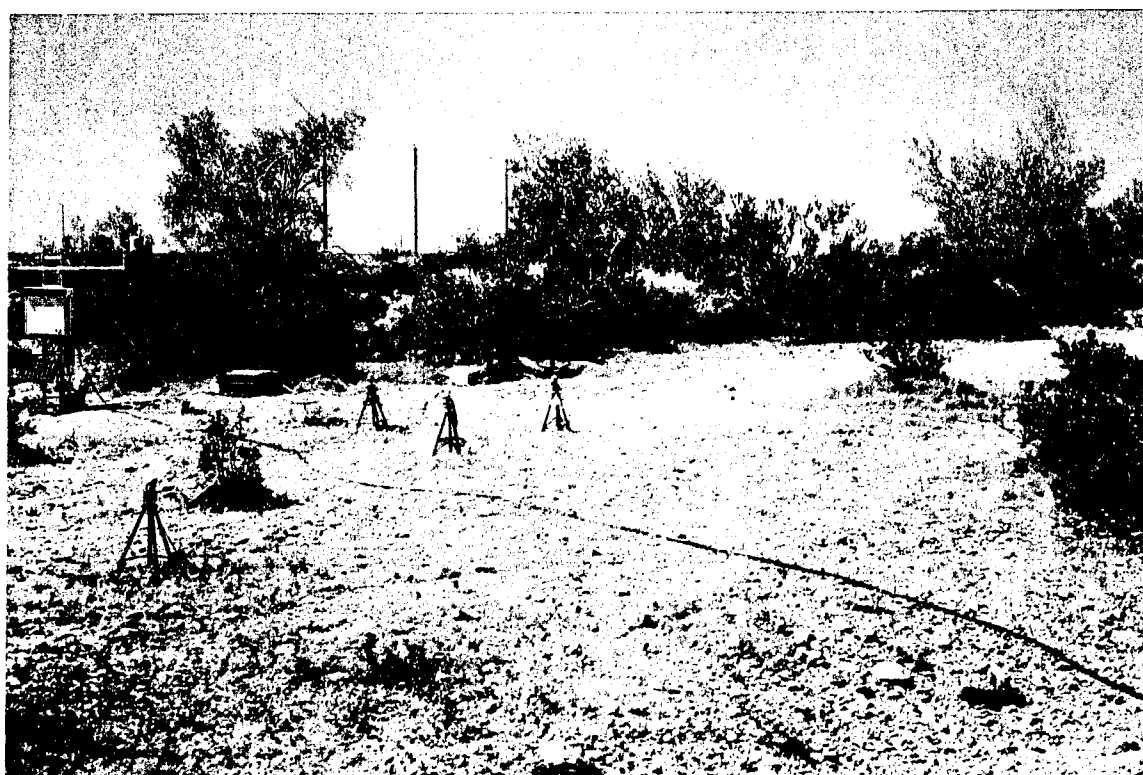


Figure 3. Site B thermal array, 30 April 1993



Figure 4. Site E thermal array, 15 March 1993



Figure 5. Site E thermal array, 30 April 1993



Figure 6. Site B feature array, 15 March 1993



Figure 7. Site B feature array, 30 April 1993



Figure 8. Site D feature array, 15 March 1993



Figure 9. Site D feature array, 30 April 1993



Figure 10. Troxler thin layer density gauge



Figure 11. Speedy soil moisture gauge

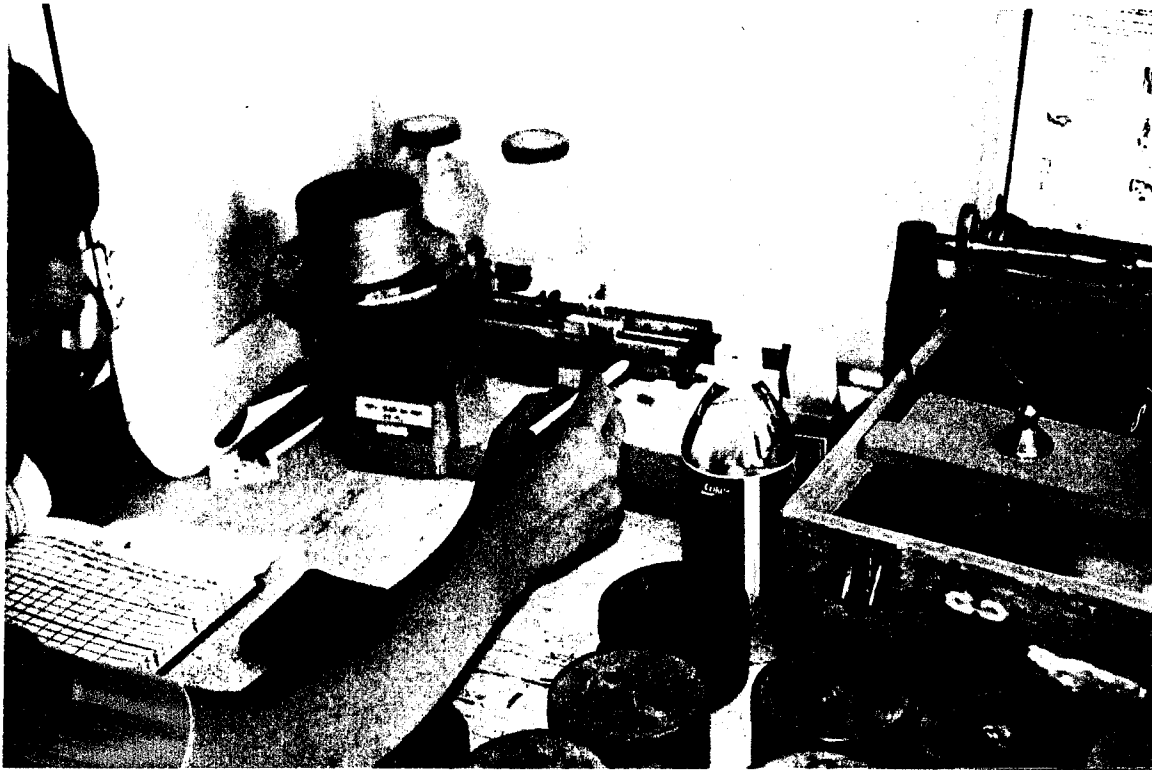


Figure 12. Determining soil moisture using an oven dry technique

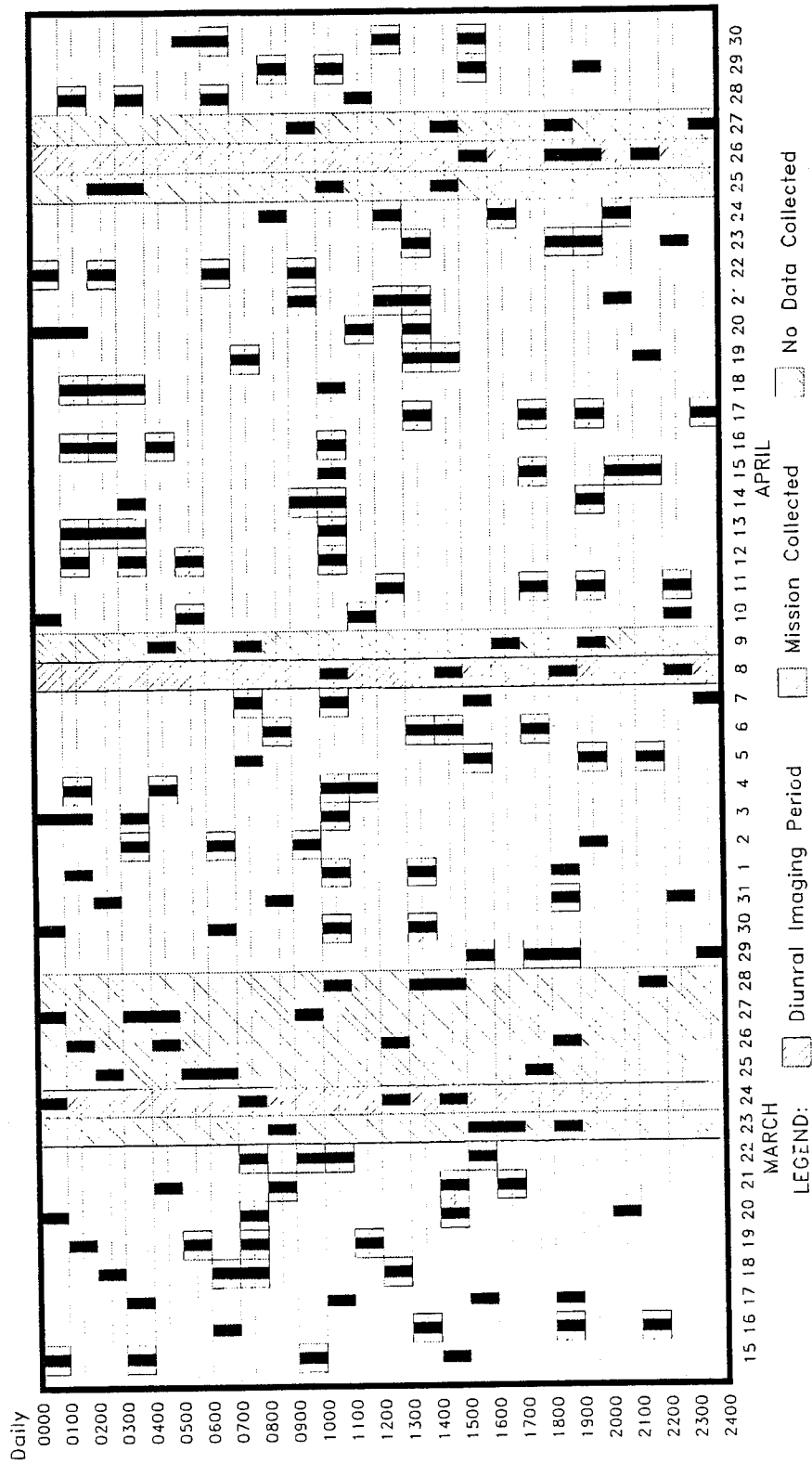


Figure 13. WES imaging schedule

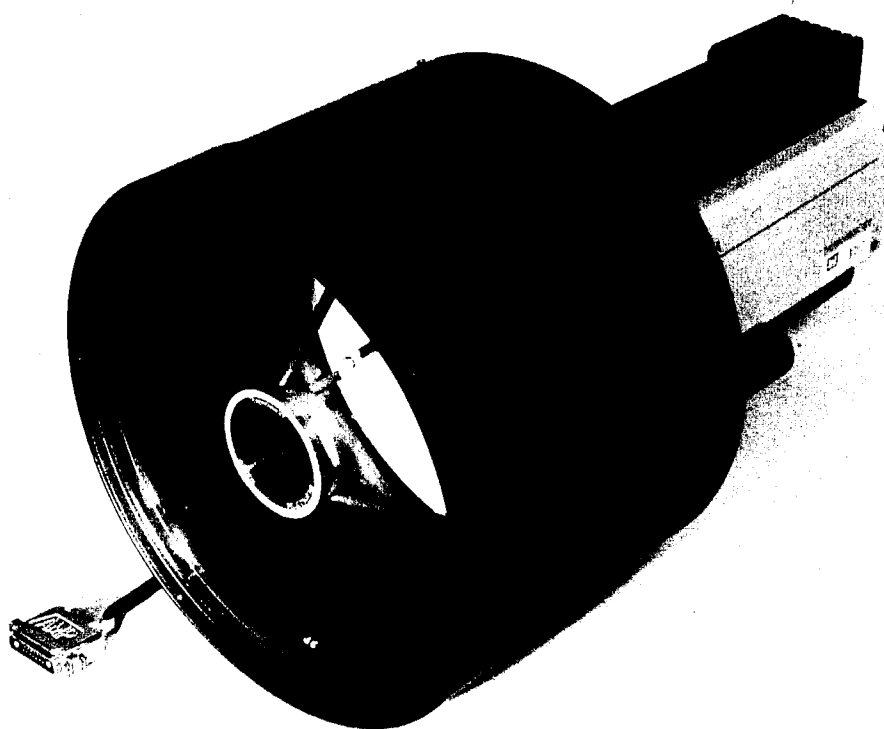


Figure 14. Agema 900 long wave scanner



Figure 15. Agema 900 shortwave scanner



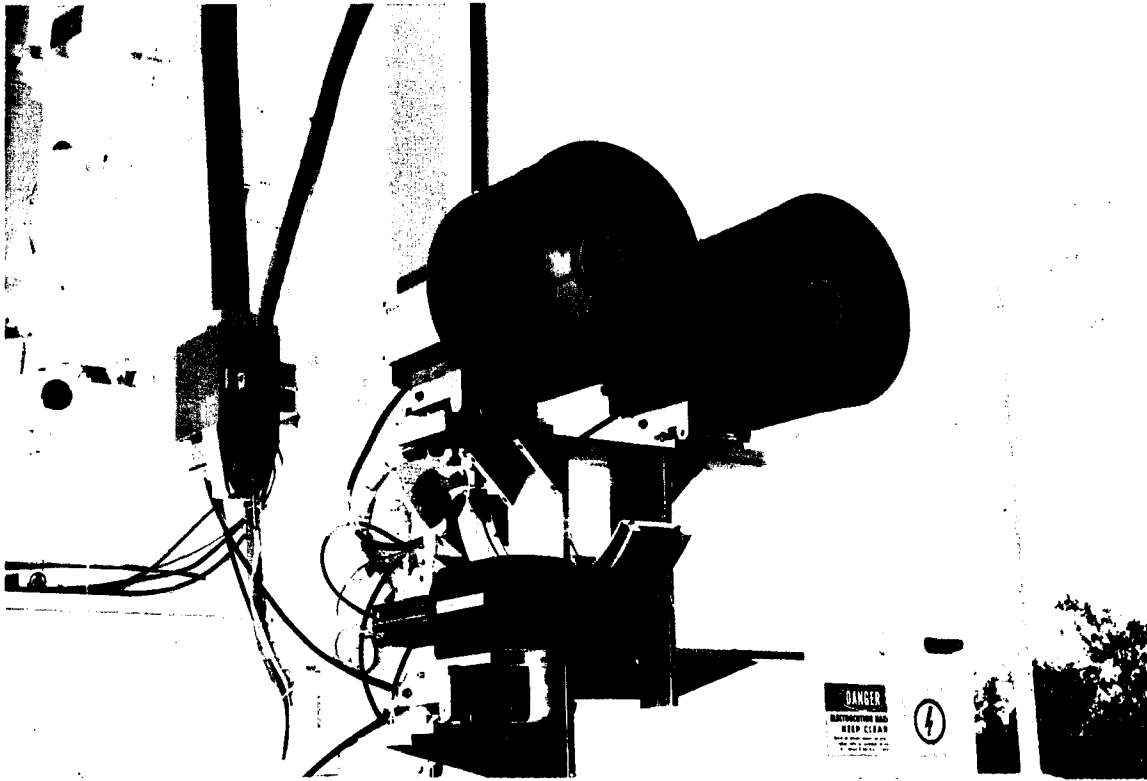


Figure 16. WES computer-controlled camera mount



Figure 17. WES boom truck

# Thermal Data

## THUR 18 MAR 93

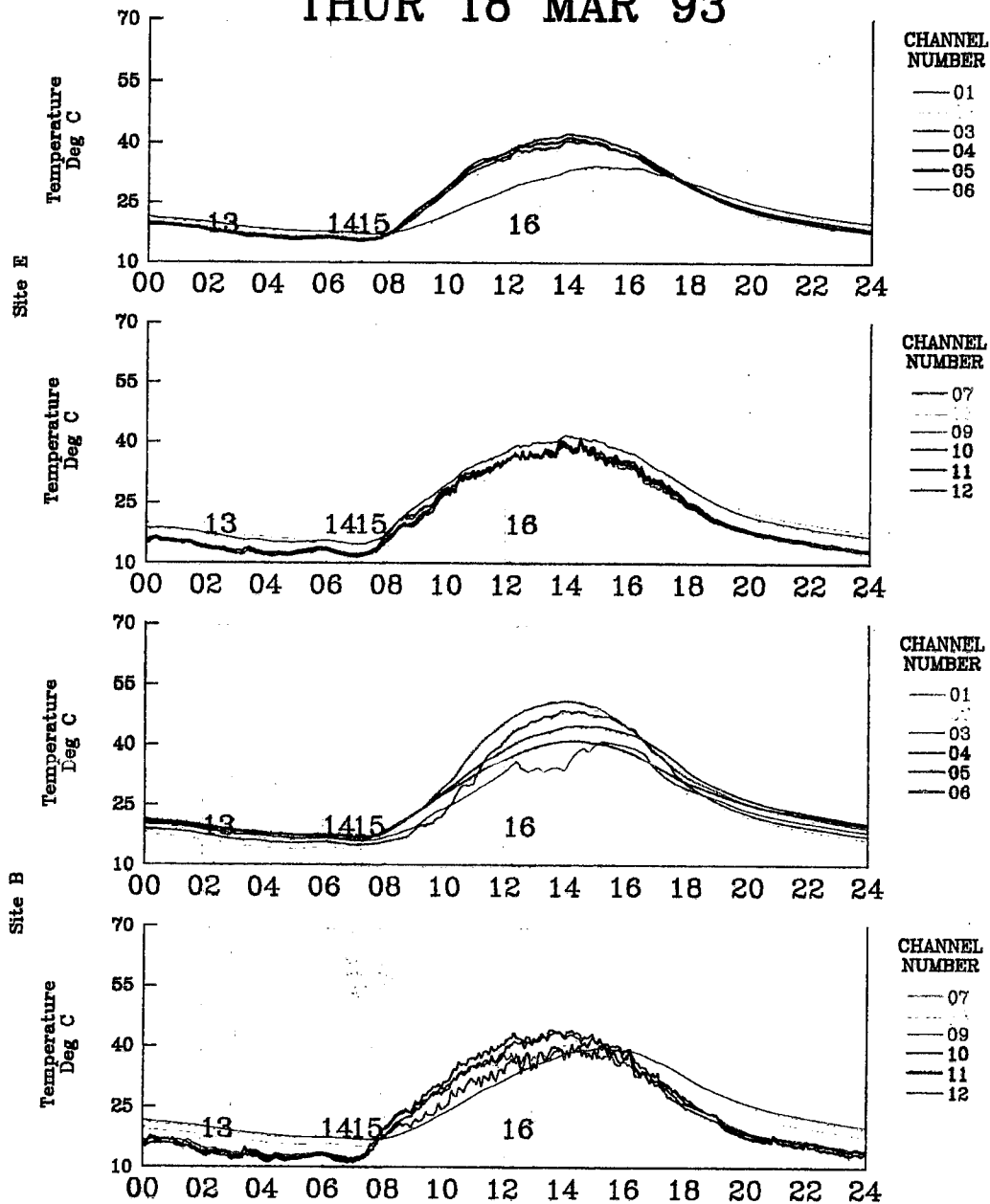


Figure 18. Sample daily thermal data plot

# Apparent Temperature

## THUR 18 MAR 93

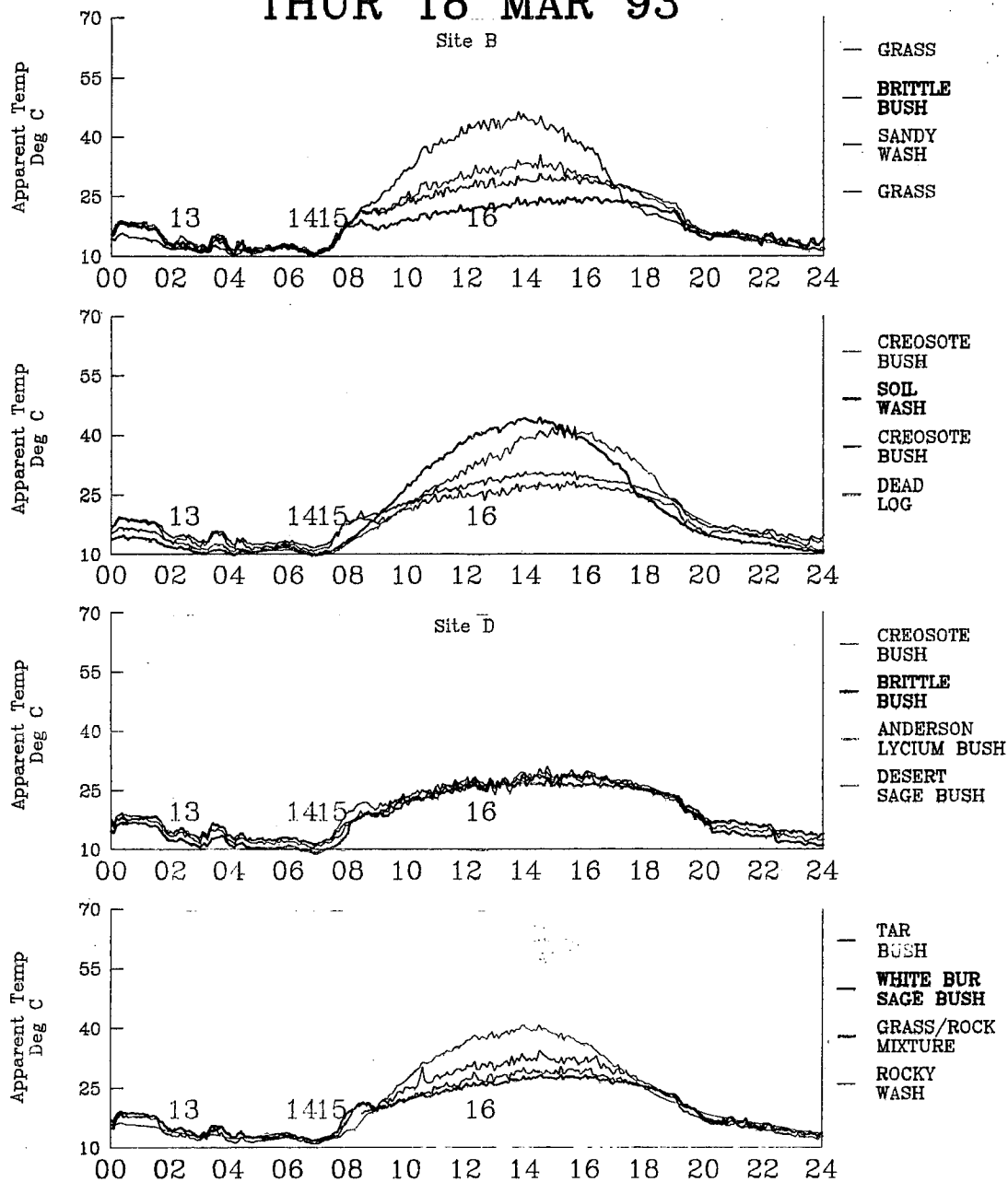


Figure 19. Sample daily apparent temperature data plot

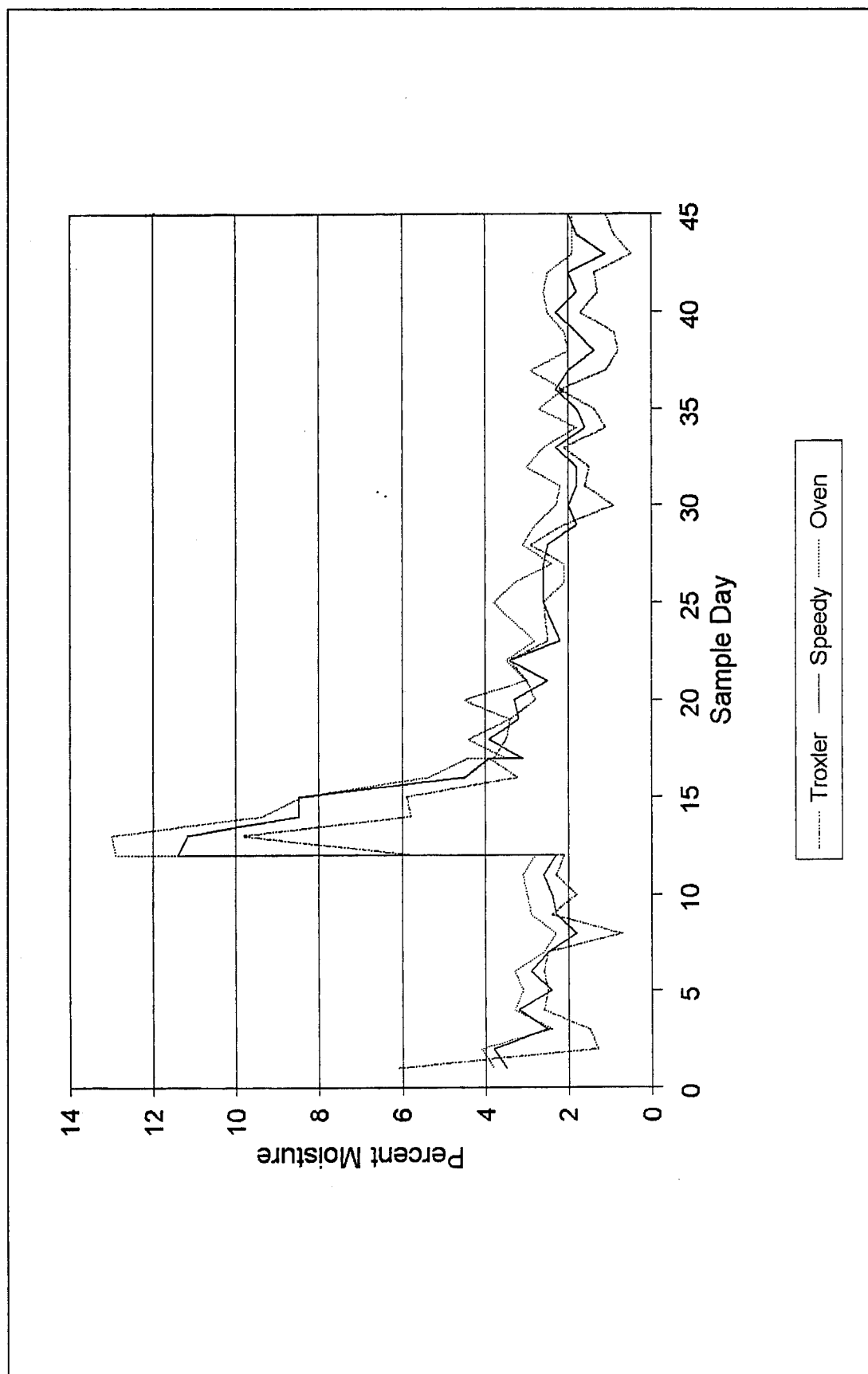


Figure 20. Daily soil moisture results for Site A

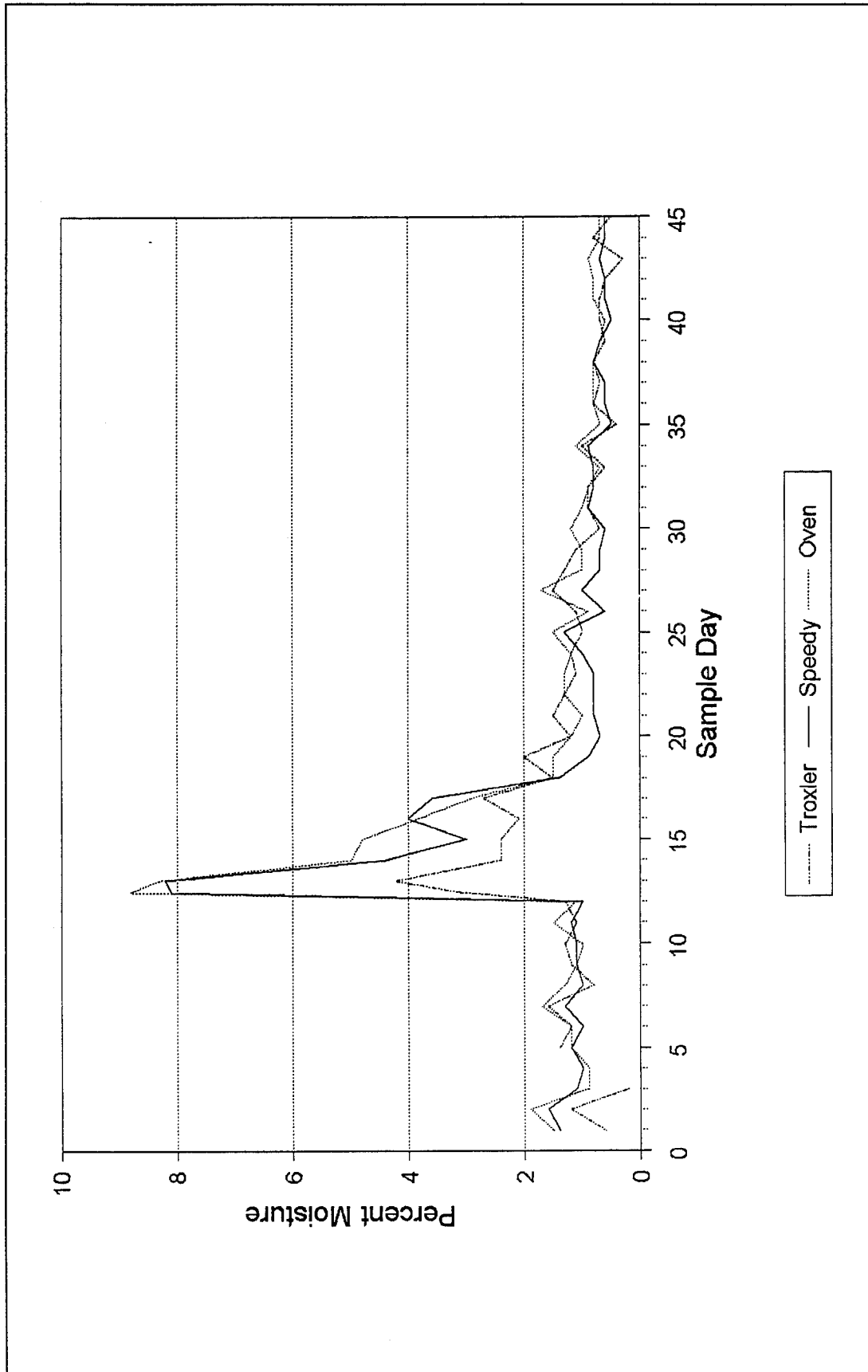


Figure 21. Daily moisture results for Site B

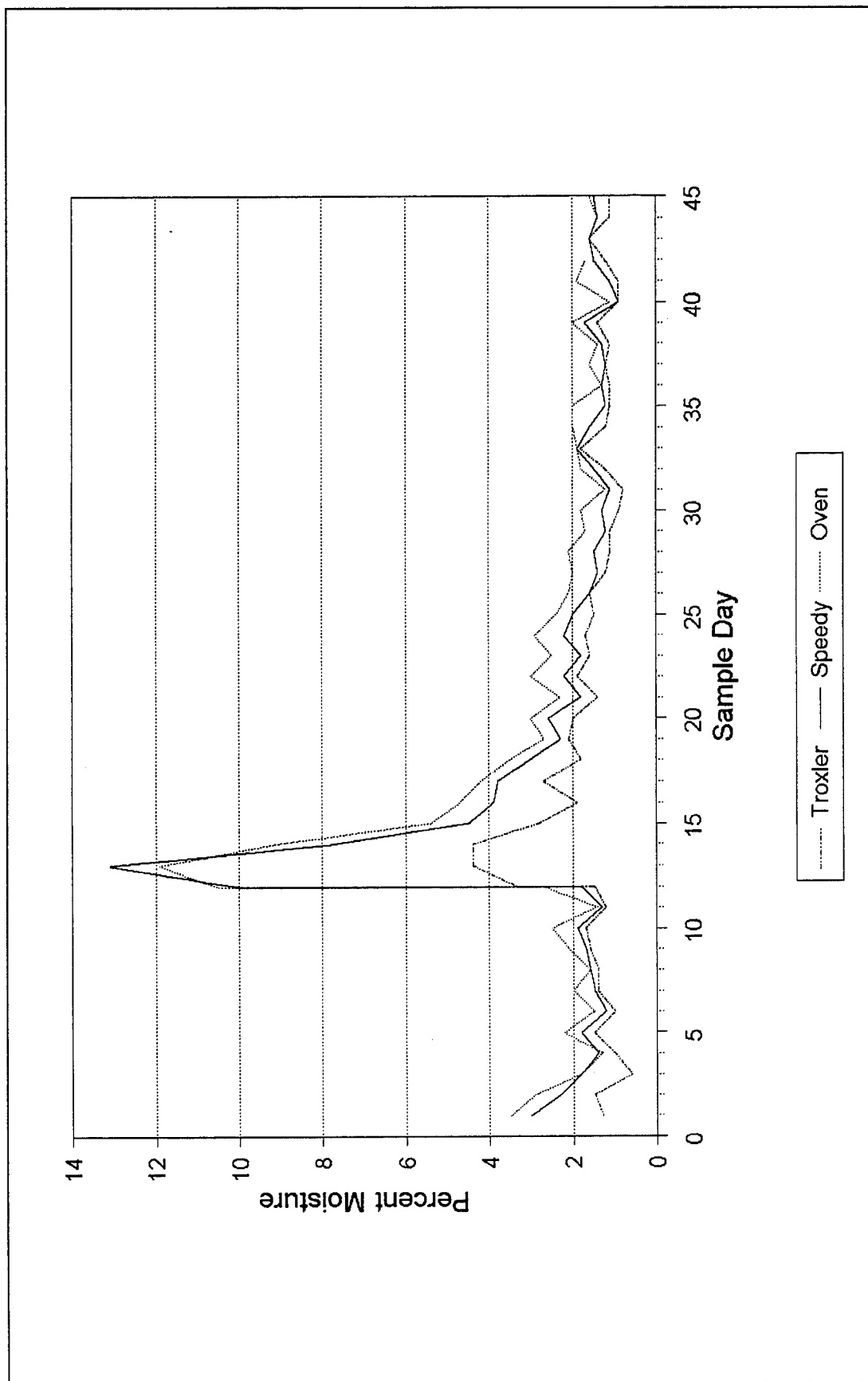


Figure 22. Daily moisture results for Site C

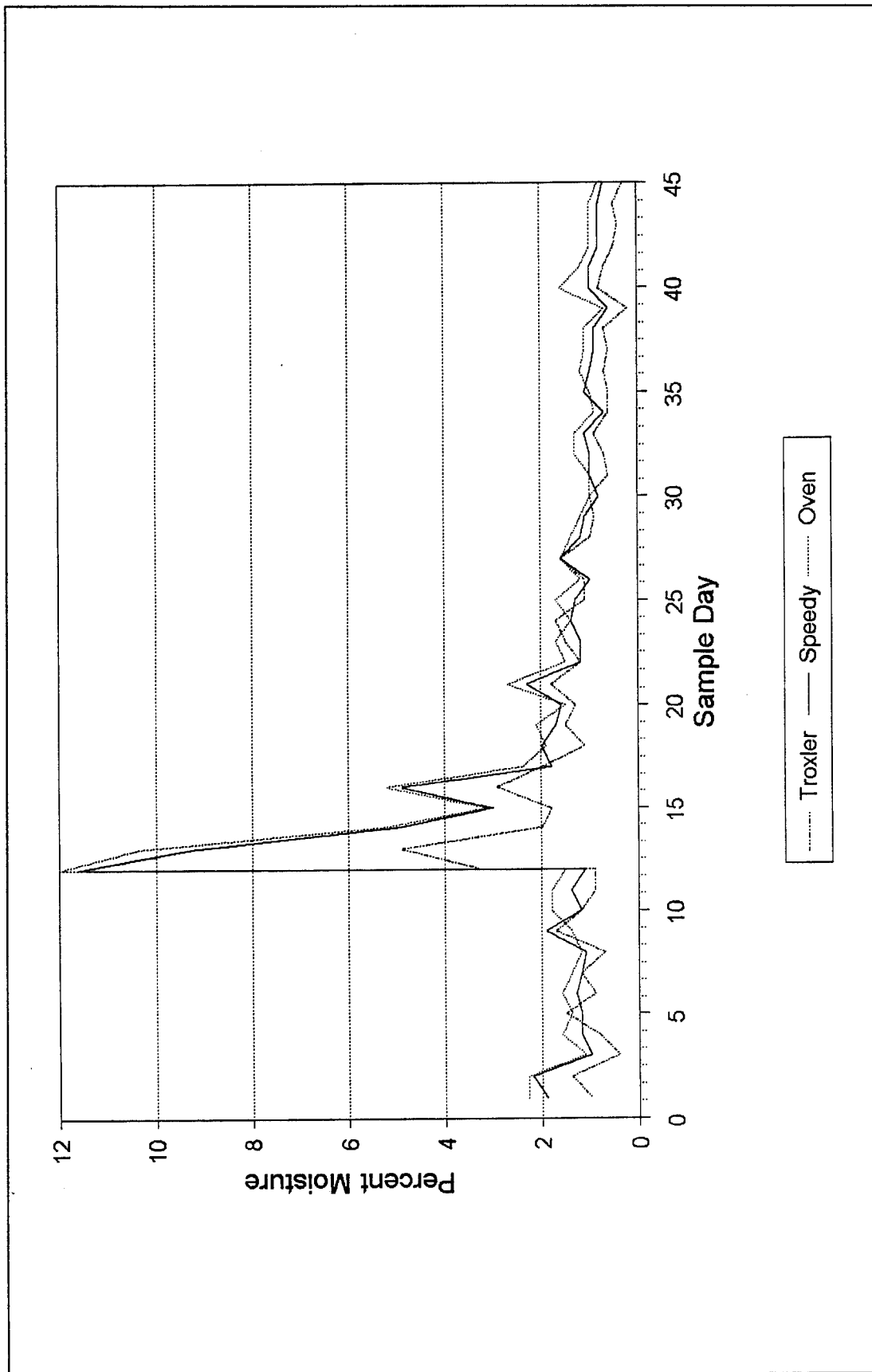


Figure 23. Daily moisture results for Site D

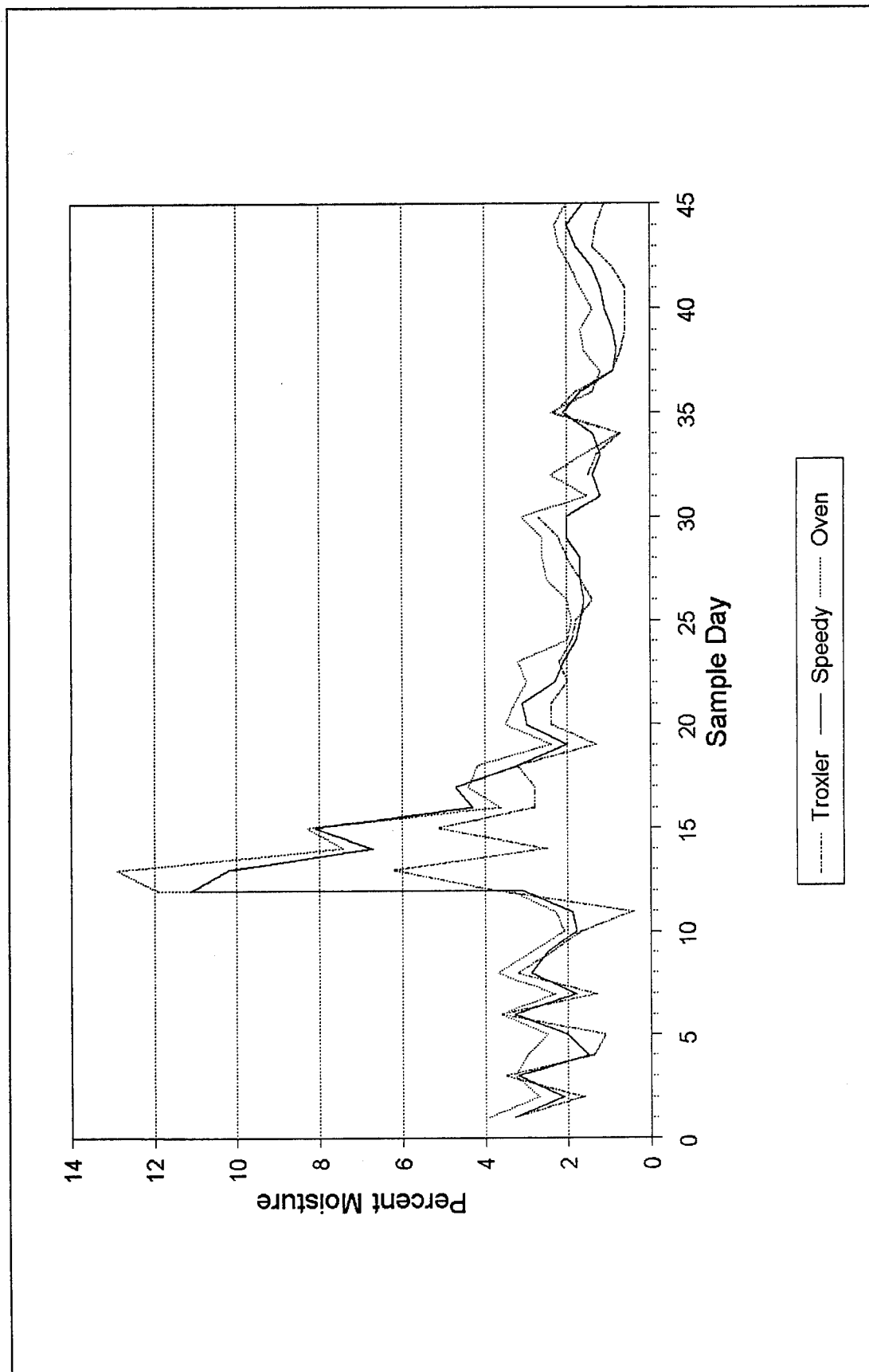


Figure 24. Daily moisture results for Site E



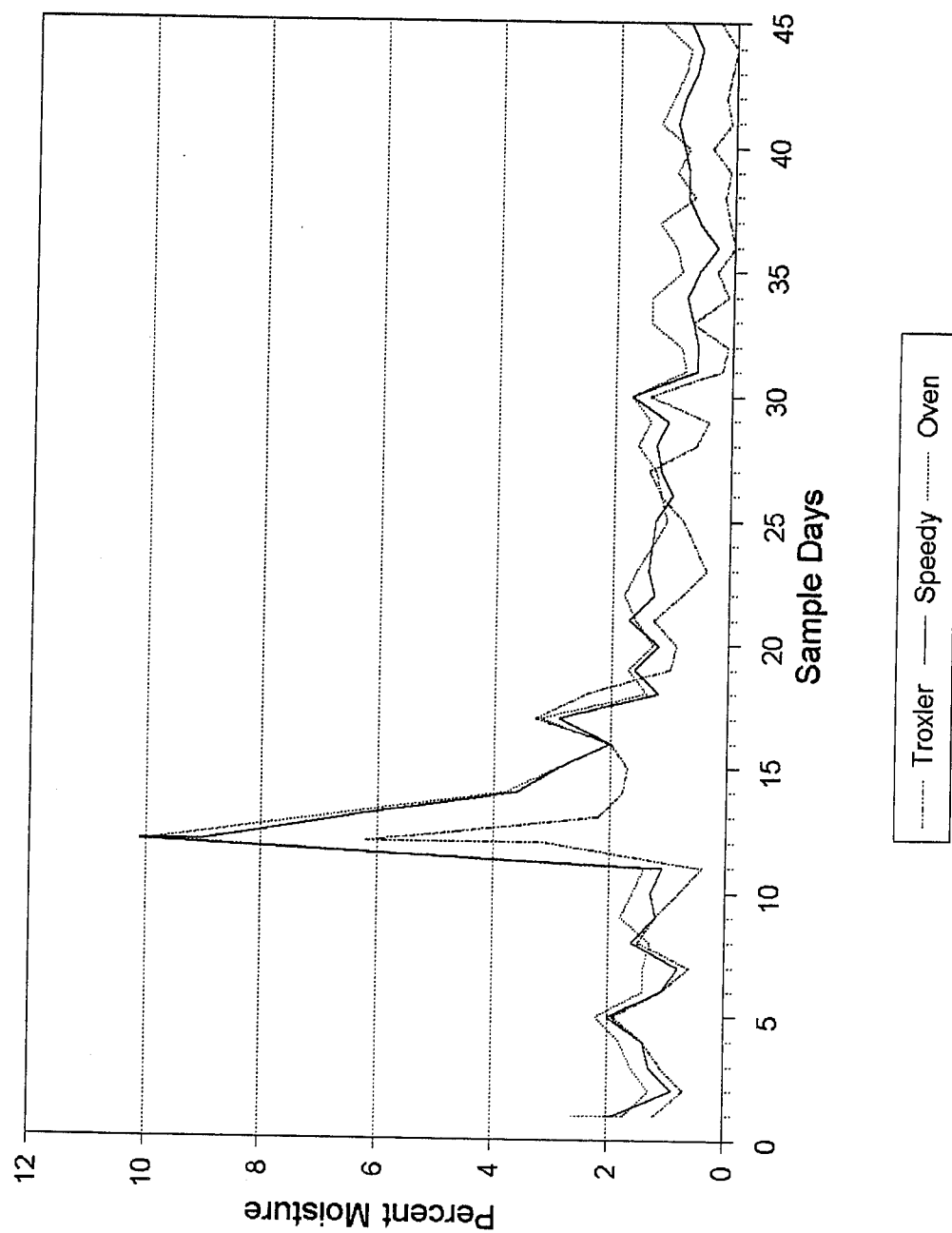


Figure 25. Daily moisture results for Site F

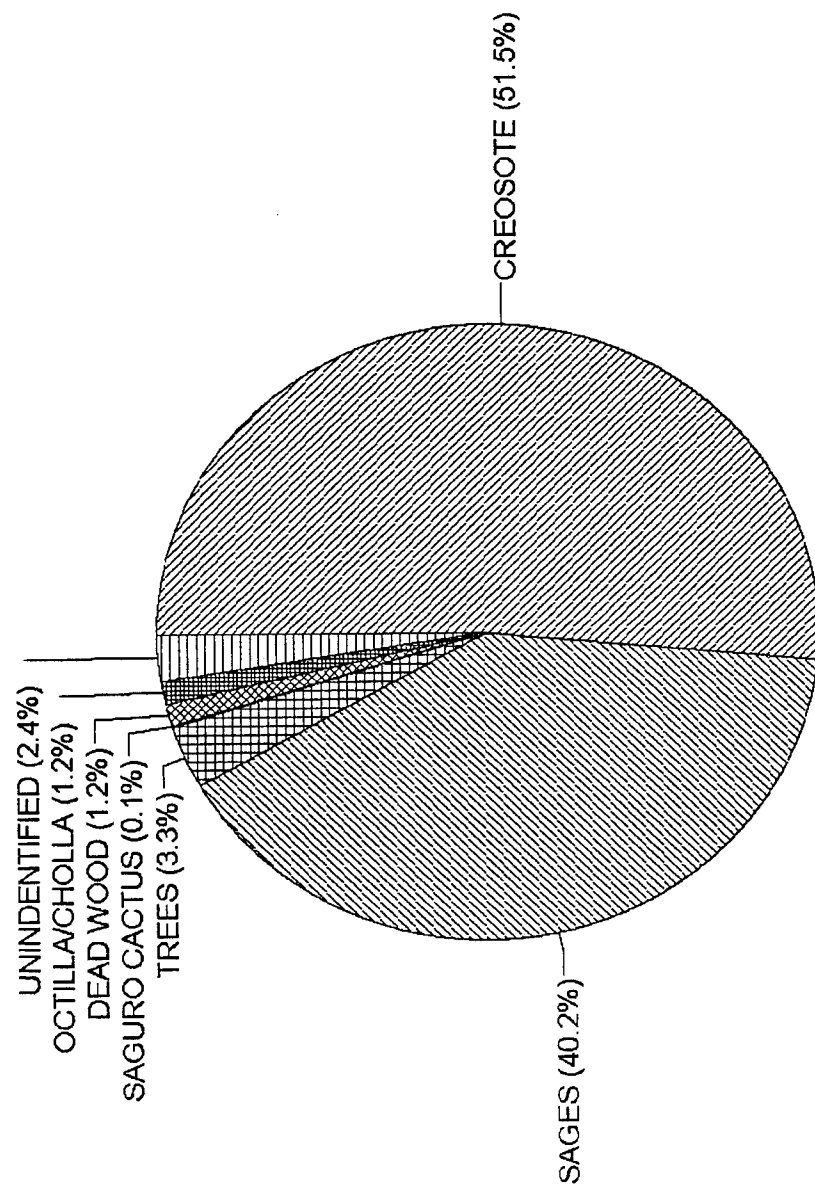


Figure 26. Plant distribution by species

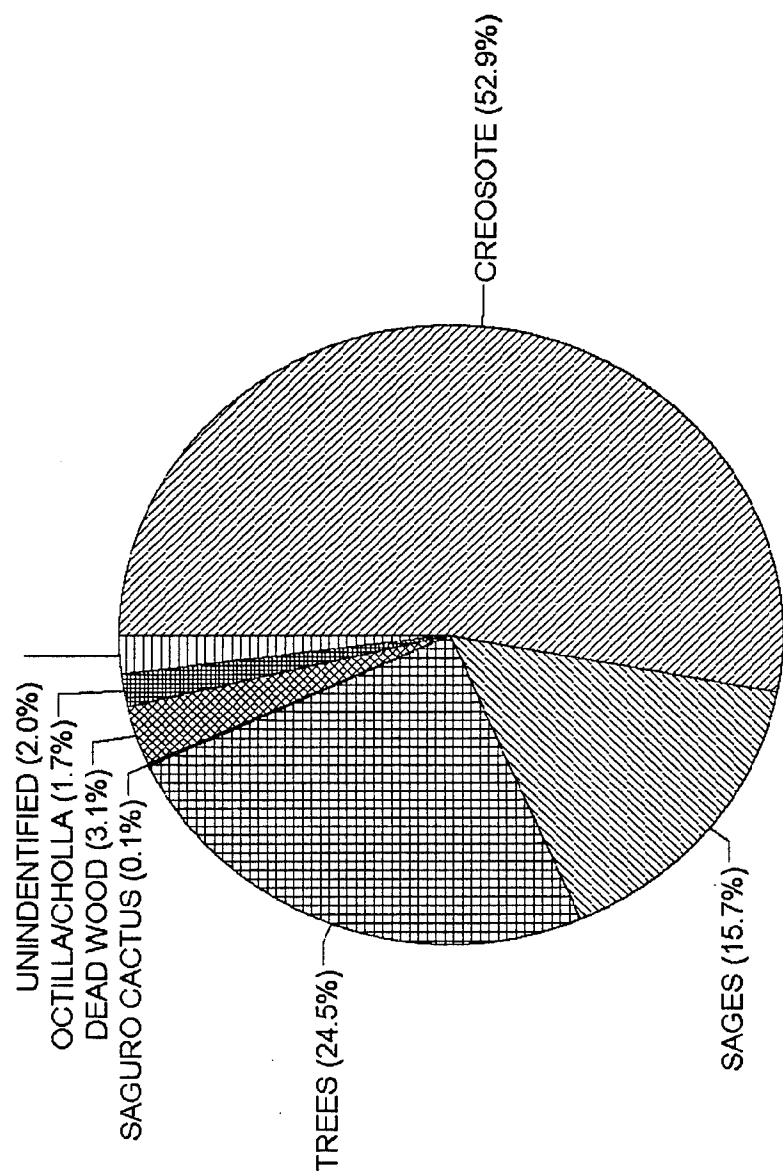


Figure 27. Plant distribution by area covered



Figure 28. Technique for measuring microtopography

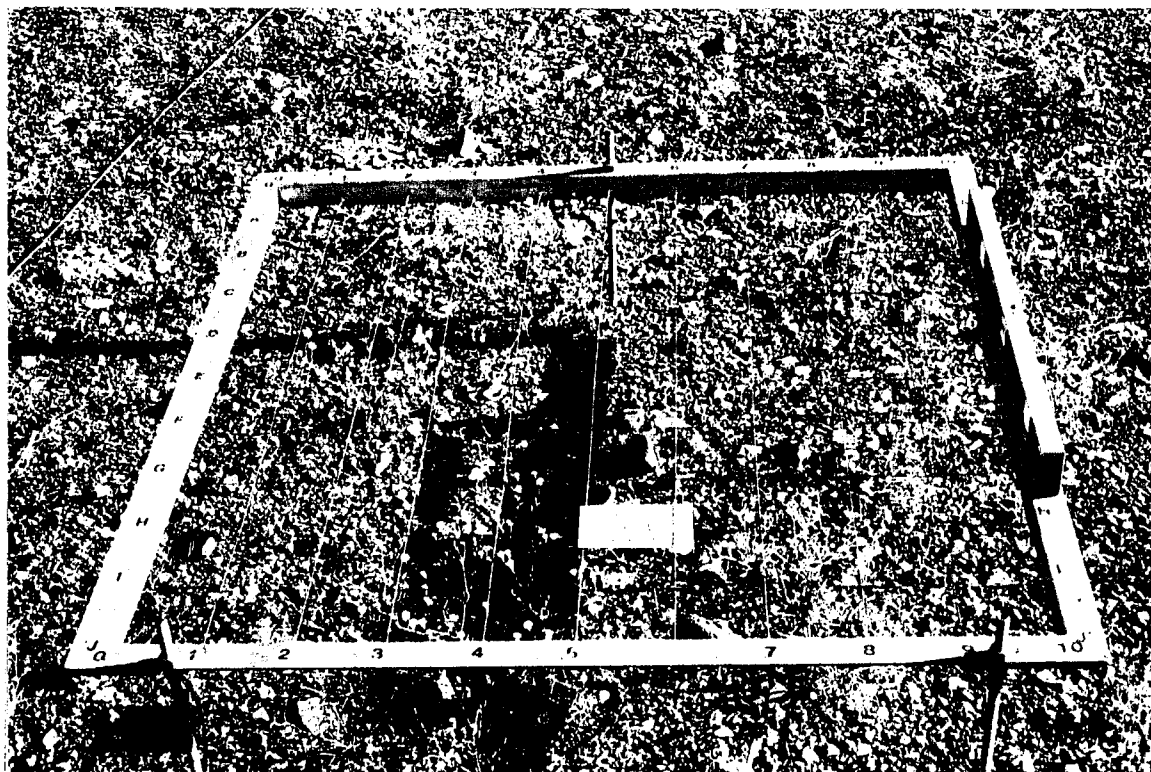


Figure 29. East Grid 1, secondary wash

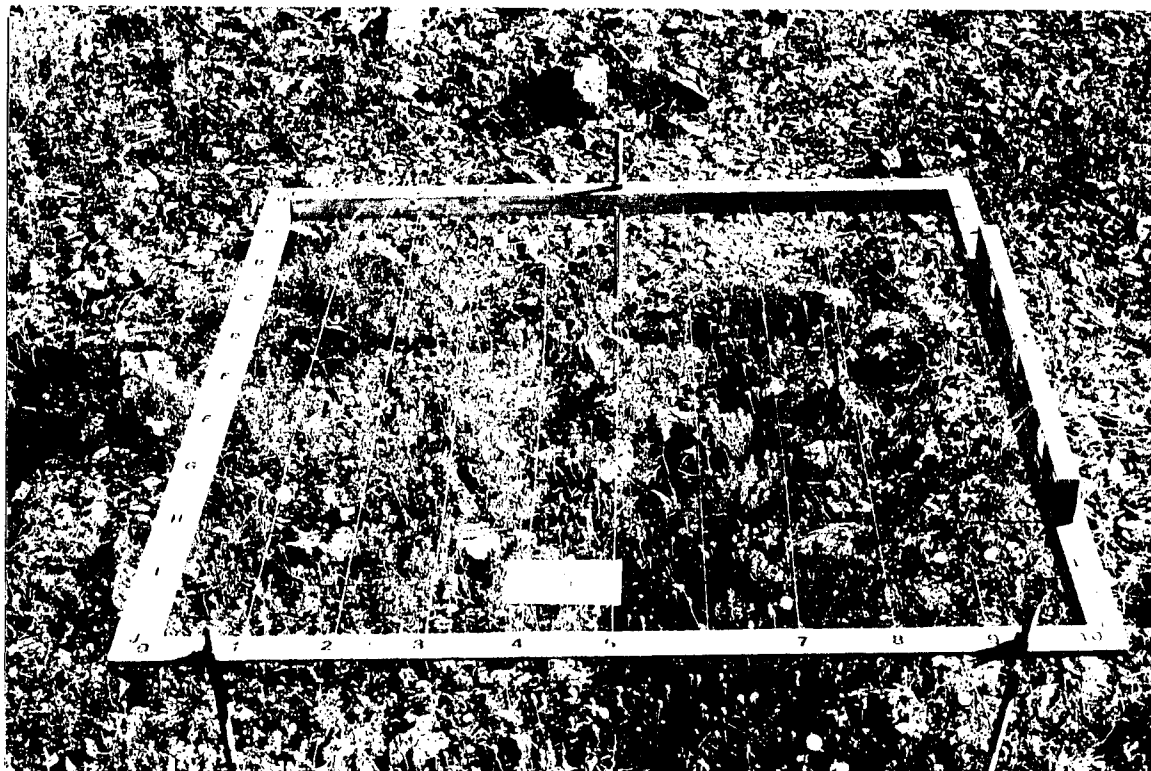


Figure 30. East Grid 2, vegetated secondary wash

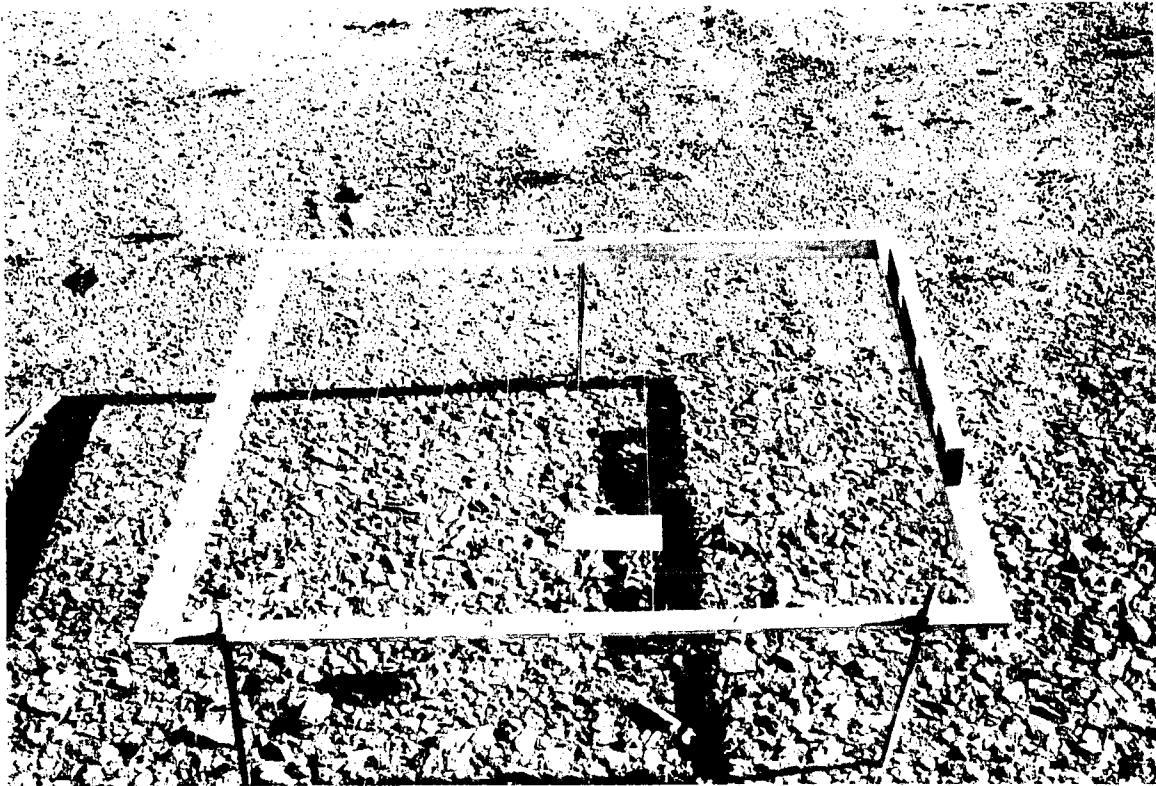


Figure 31. East Grid 3, desert pavement

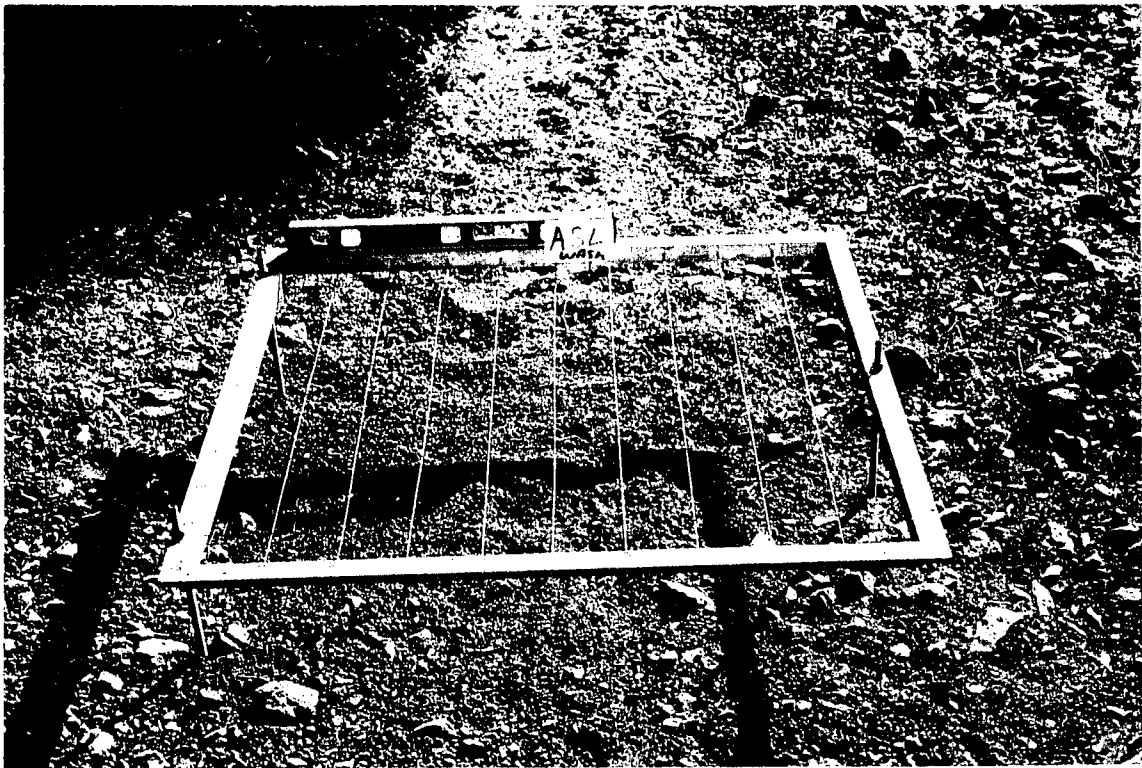


Figure 32. East Grid 4, primary wash

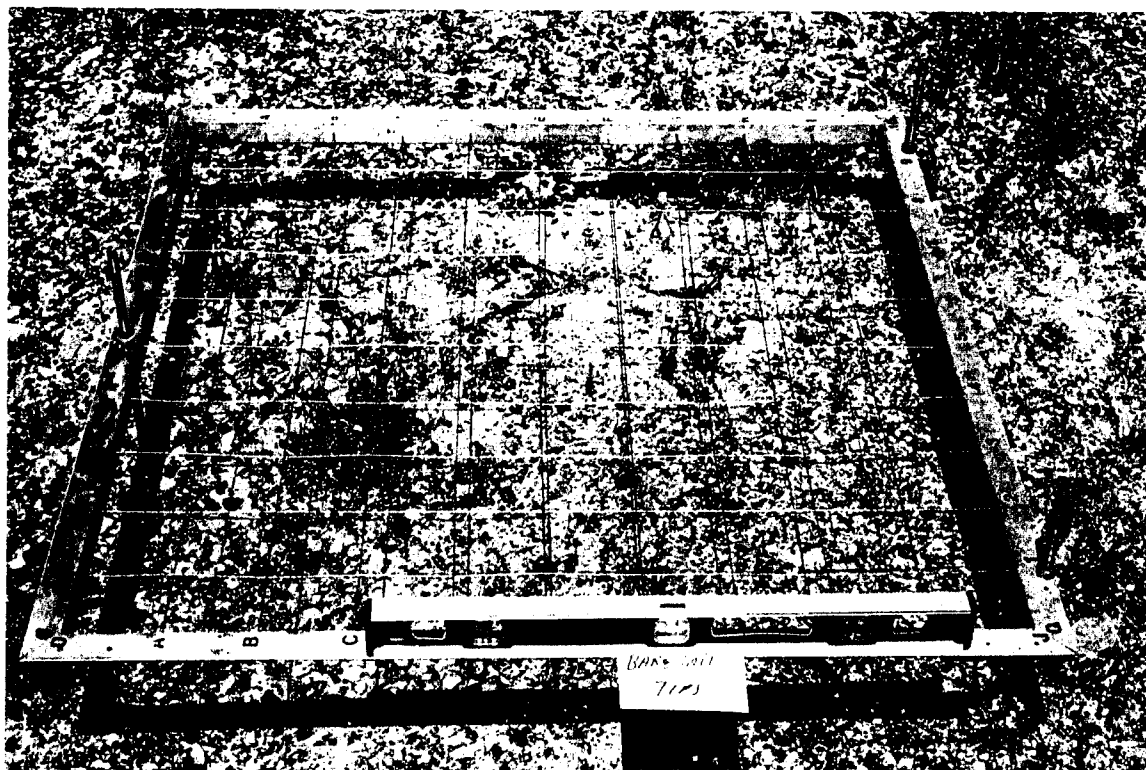


Figure 33. West Grid 1, bare soil

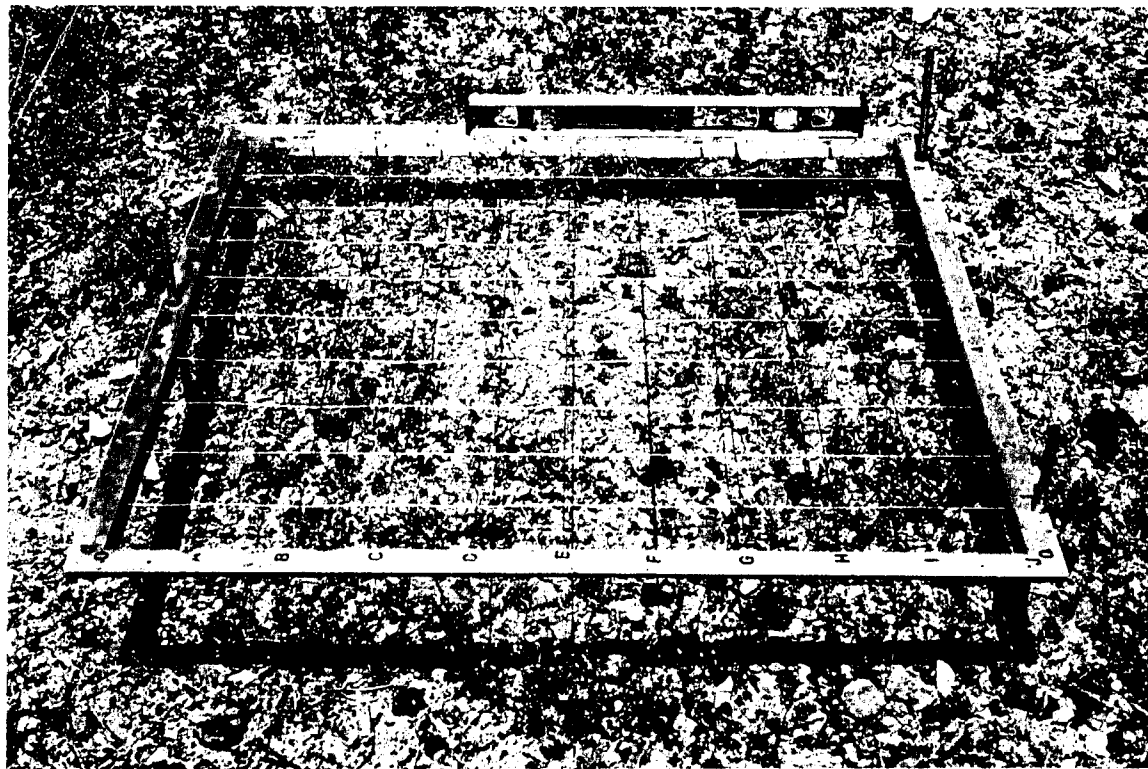


Figure 34. West Grid 2, grassy area

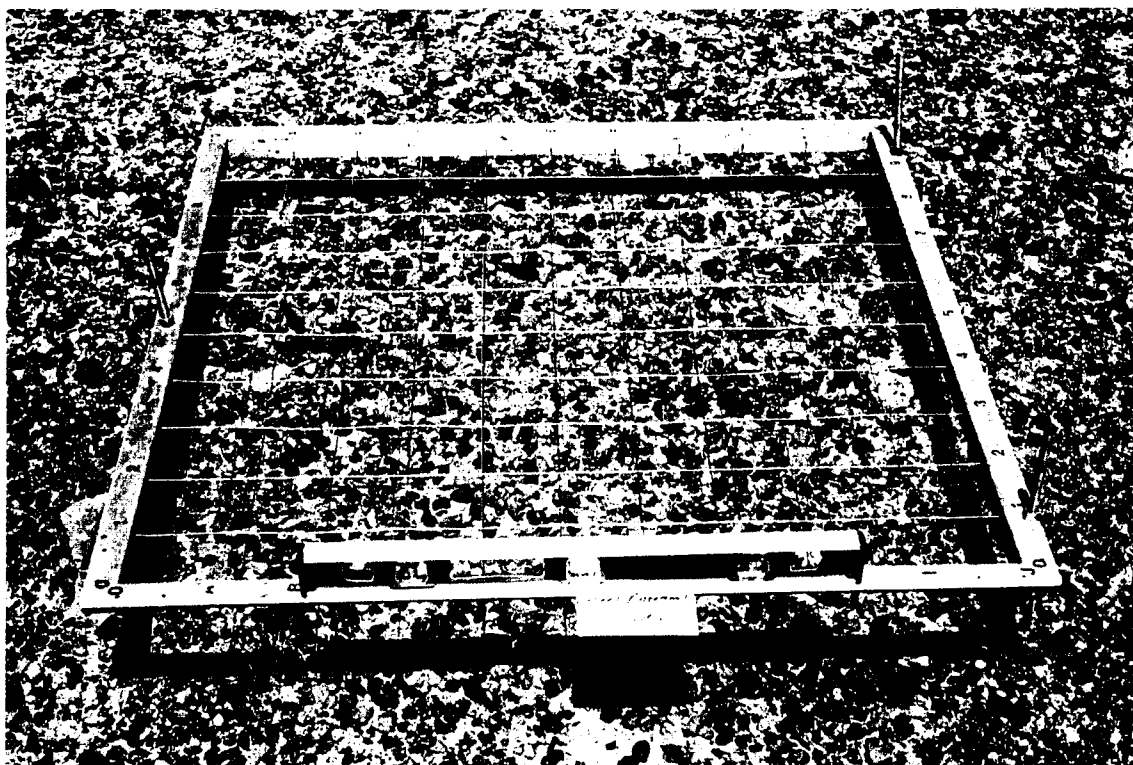


Figure 35. West Grid 3, desert pavement



Figure 36. West Grid 4, primary wash



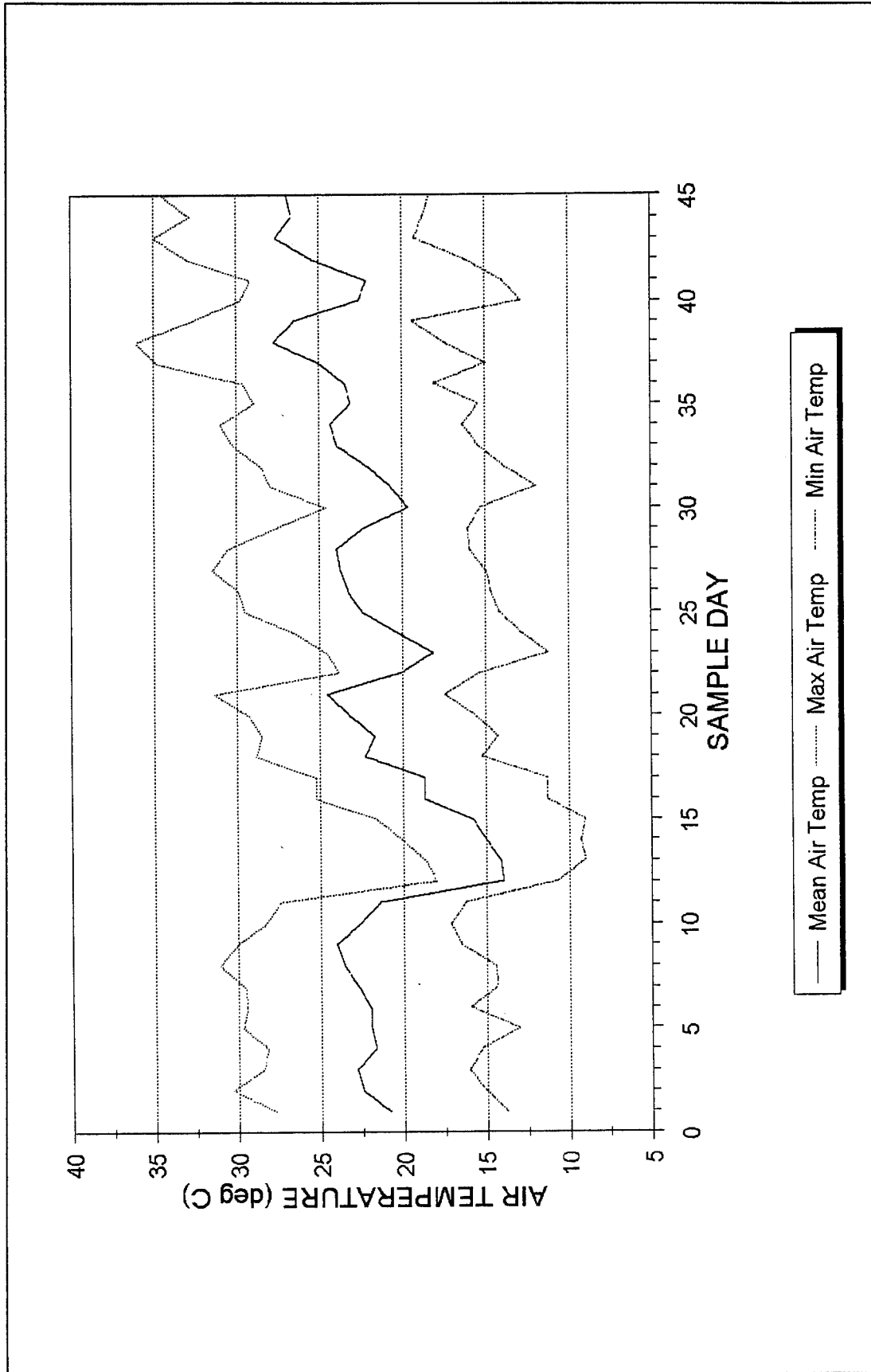


Figure 37. Daily minimum, maximum, and mean air temperature

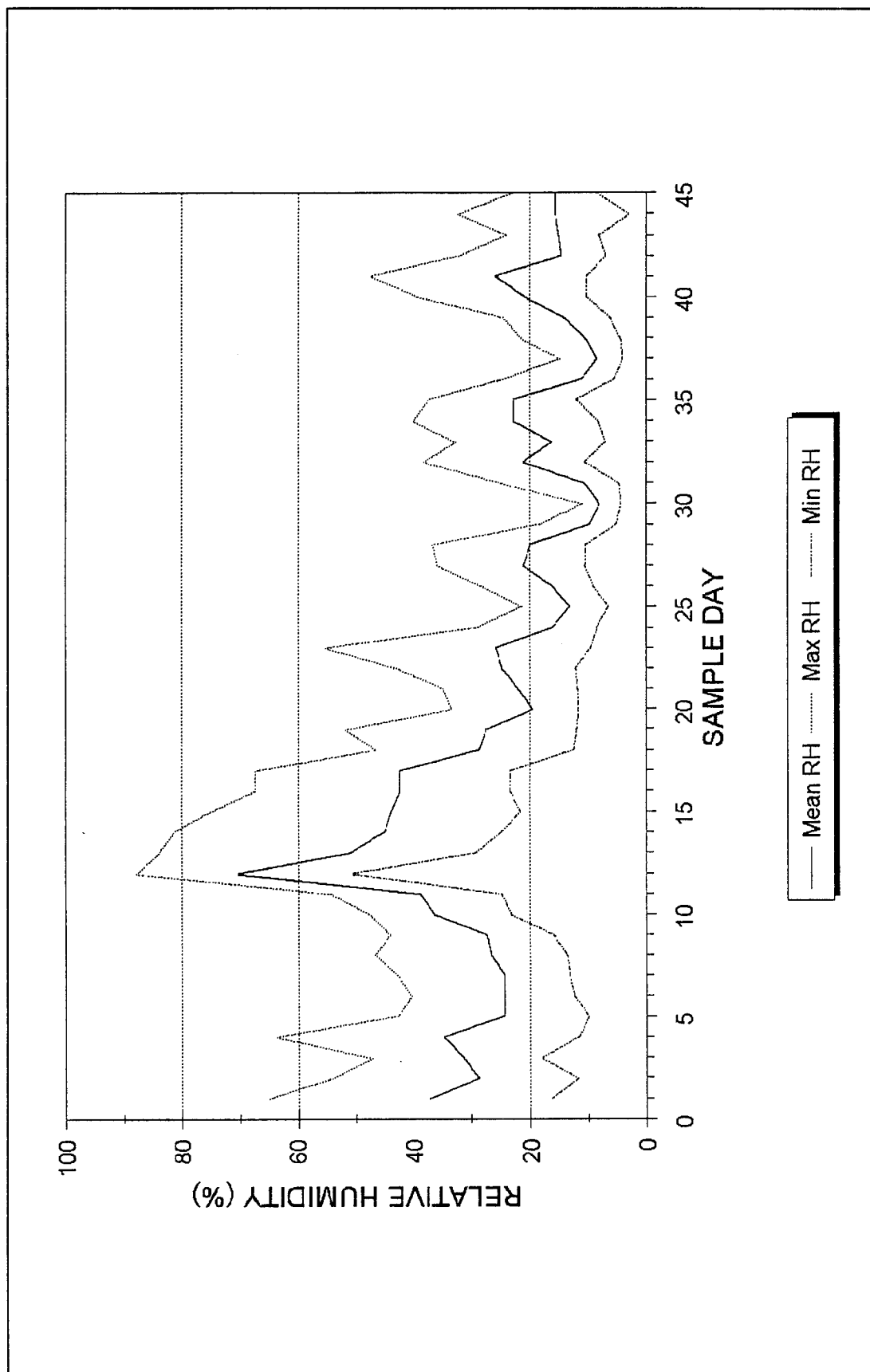


Figure 38. Daily minimum, maximum, and mean relative humidity

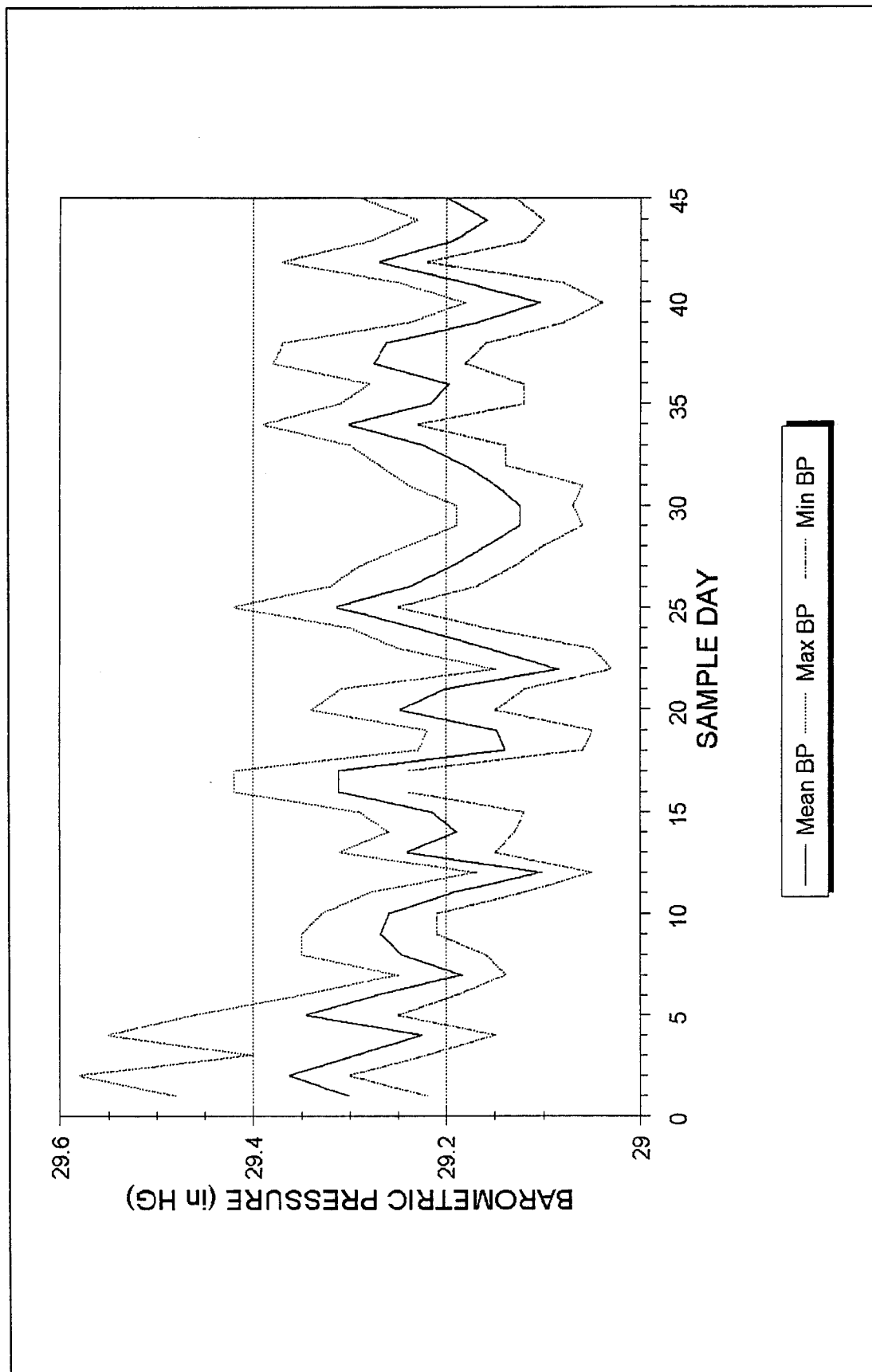


Figure 39. Daily minimum, maximum, and mean barometric pressure

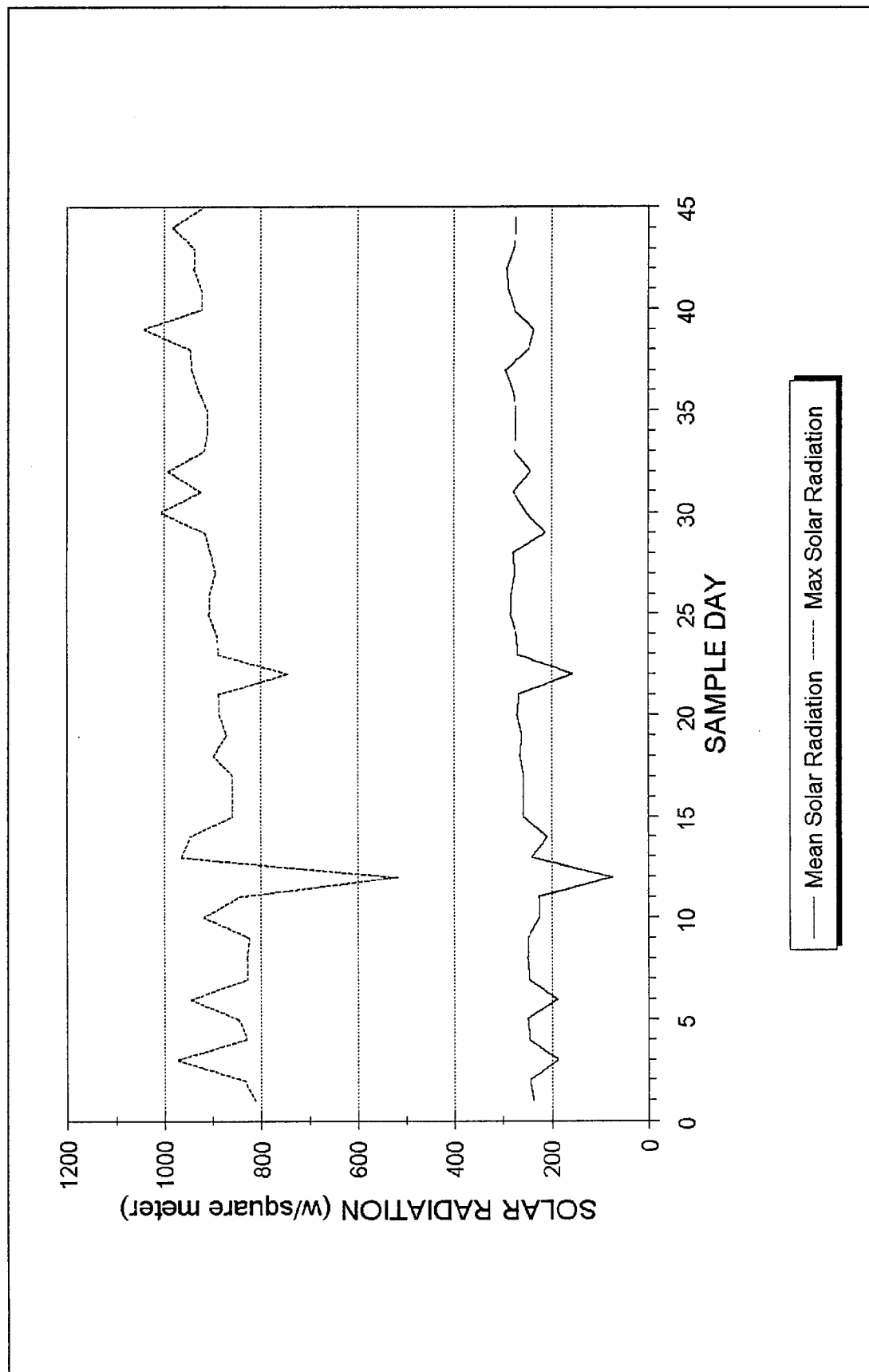


Figure 40. Daily maximum and mean solar radiation

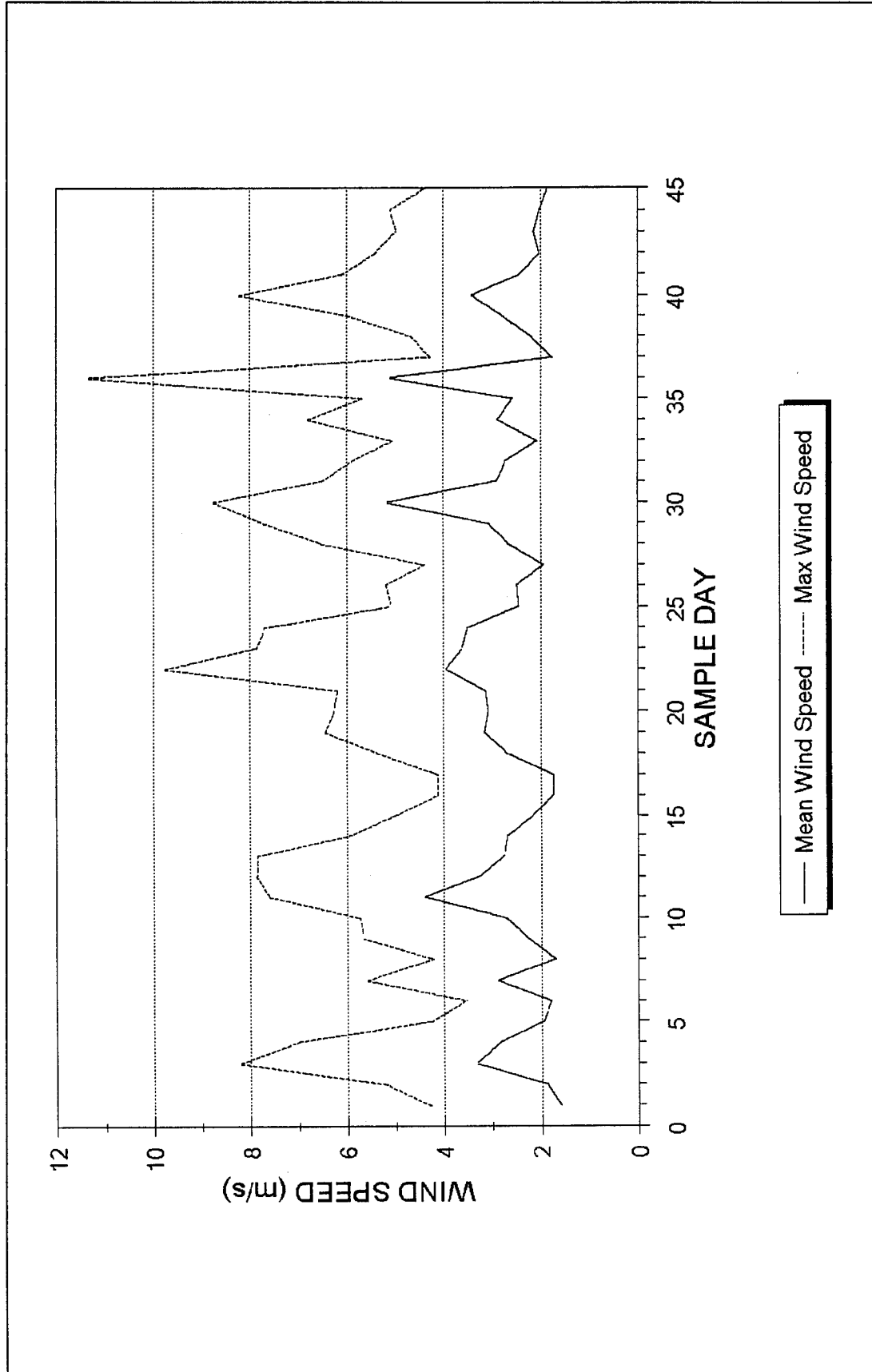


Figure 41. Daily maximum and mean wind speeds

# Environmental Summary

## THUR 18 MAR 93

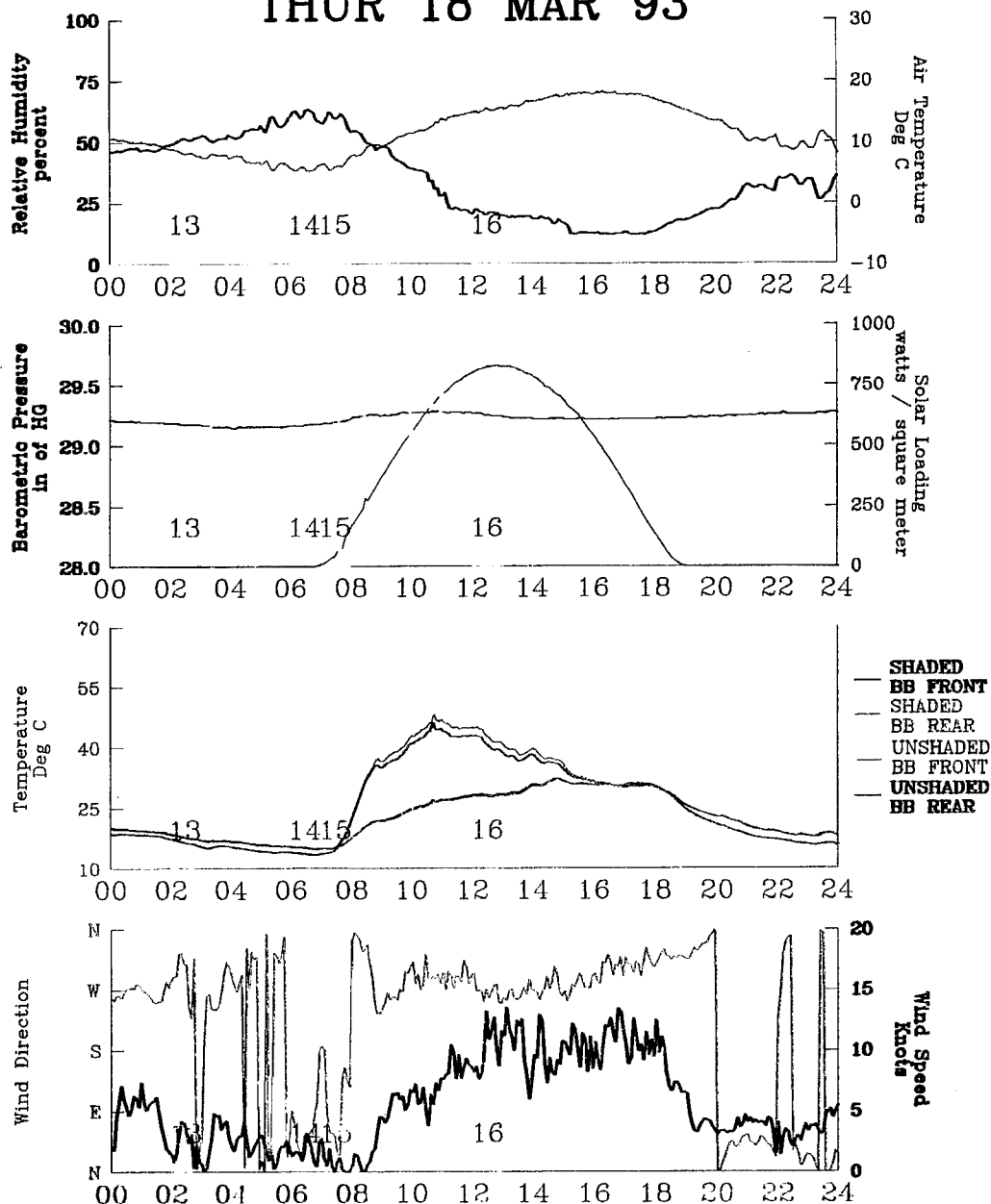
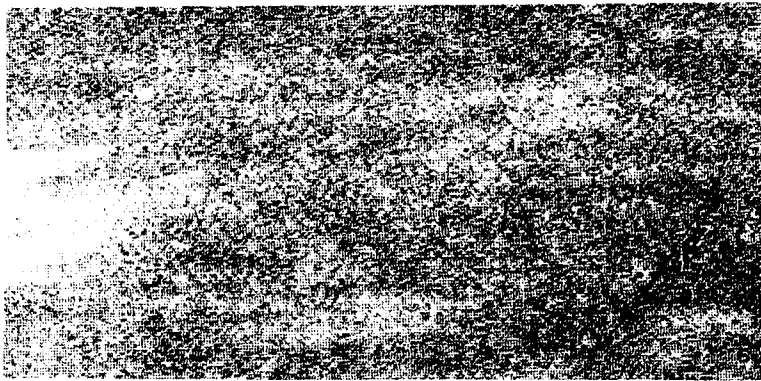
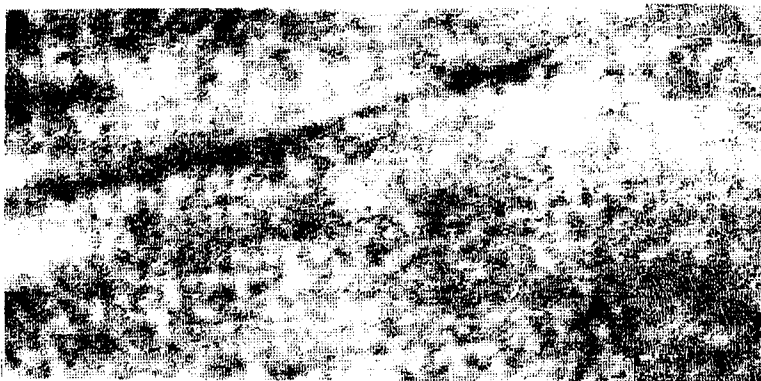


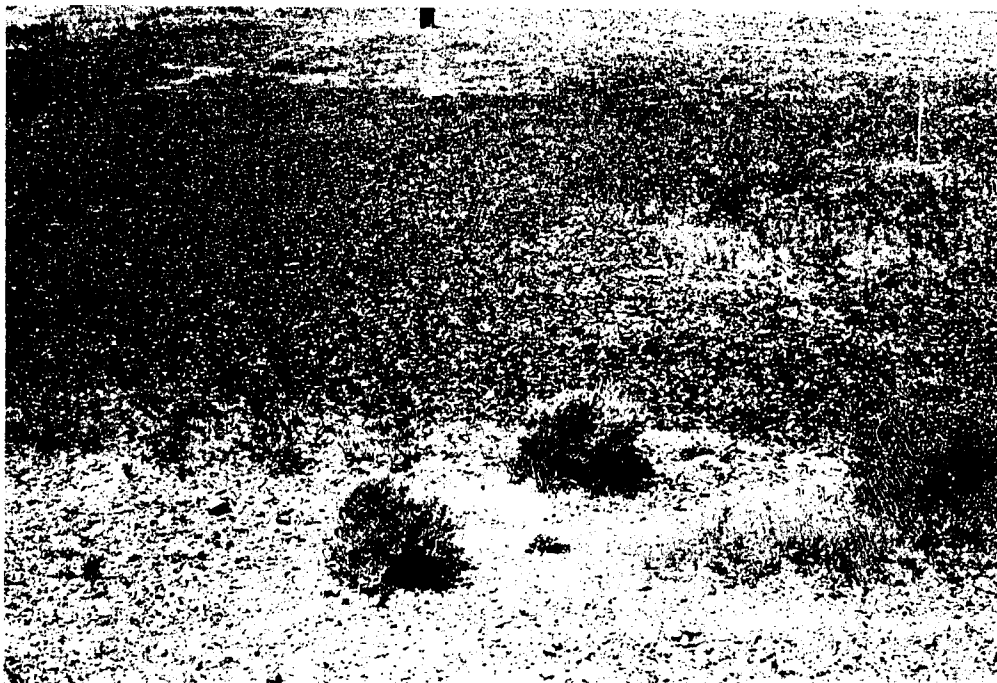
Figure 42. Sample meteorological data summary



SW IR image

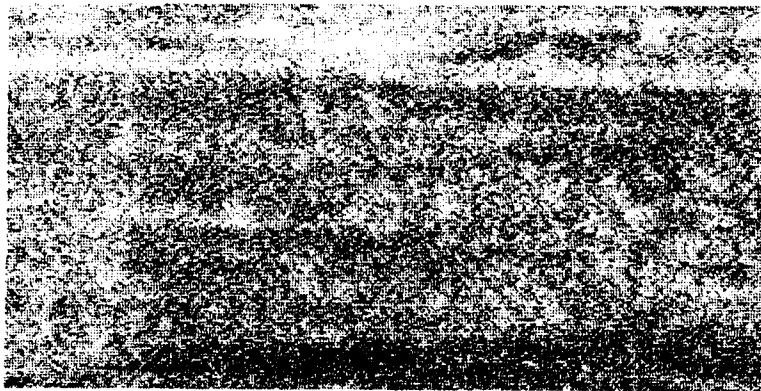


LW IR image



Visual image

Figure 43. Scene West 1, SW IR, LW IR, and visual imagery



SW IR image



LW IR image



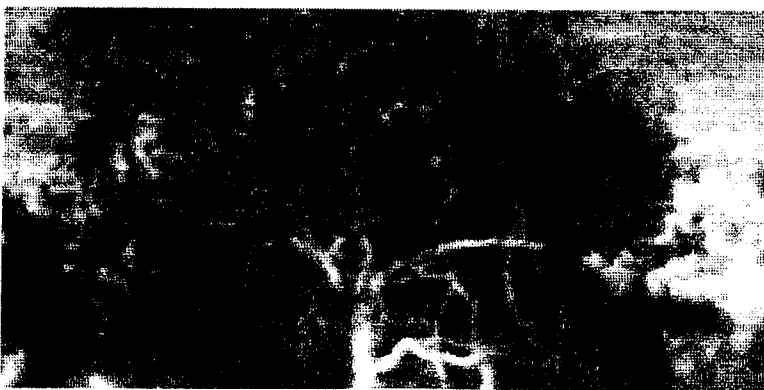
Visual image

Figure 44. Scene West 2, SW IR, LW IR, and visual imagery





SW IR image

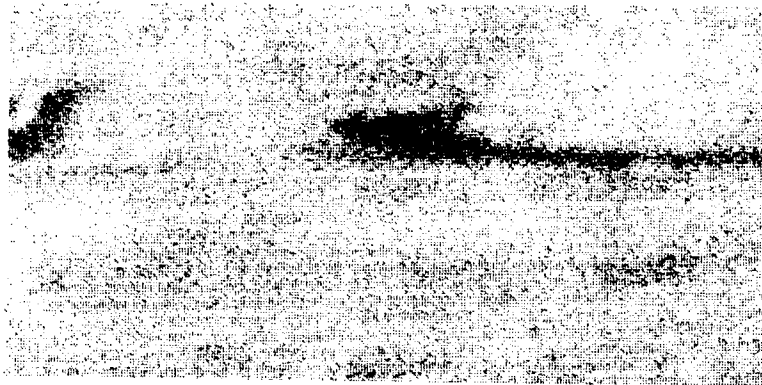


LW IR image

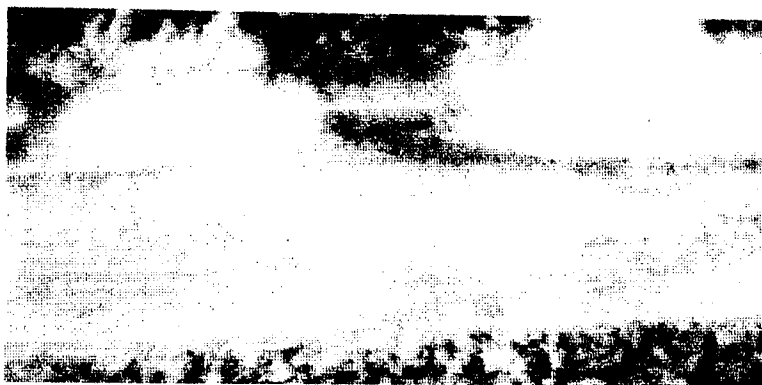


Visual image

Figure 45. Scene West 3, SW IR, LW IR, and visual imagery



SW IR image

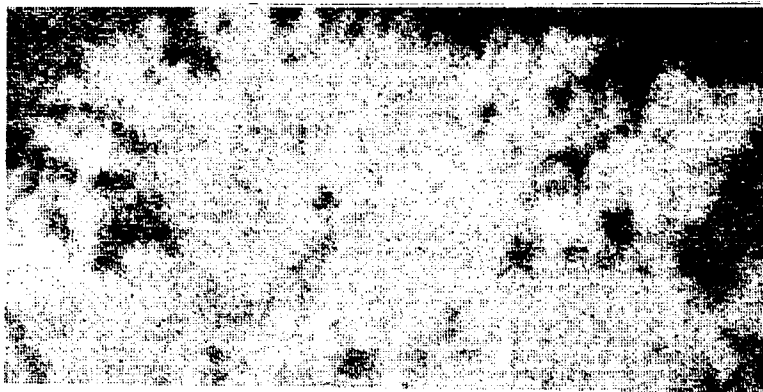


LW IR image



Visual image

Figure 46. Scene West 4, SW IR, LW IR, and visual imagery



SW IR image



LW IR image



Visual image

Figure 47. Scene West 5, SW IR, LW IR, and visual imagery



SW IR image



LW IR image



Visual image

Figure 48. Scene East 1, SW IR, LW IR, and visual imagery



SW IR image



LW IR image



Visual image

Figure 49. Scene East 2, SW IR, LW IR, and visual imagery



SW IR image



LW IR image

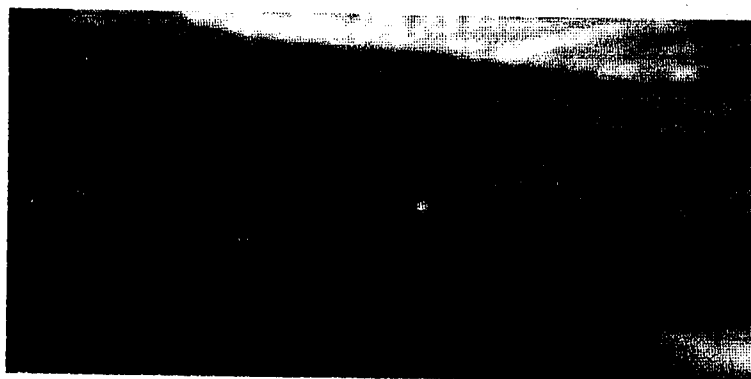


Visual image

Figure 50. Scene East 3, SW IR, LW IR, and visual imagery



SW IR image

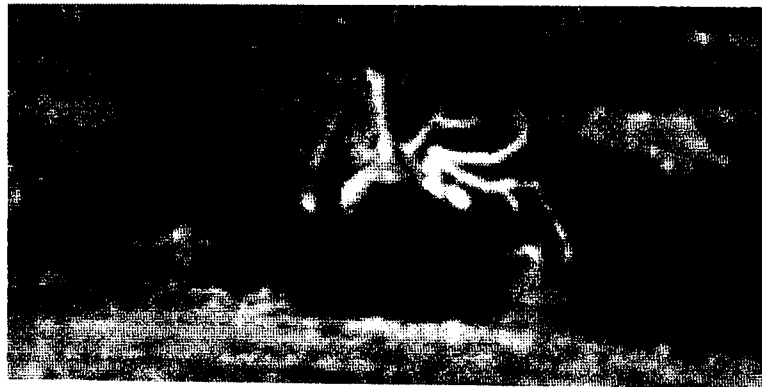


LW IR image



Visual image

Figure 51. Scene East 4, SW IR, LW IR, and visual imagery



SW IR image



LW IR image



Visual image

Figure 52. Scene East 5, SW IR, LW IR, and visual imagery



# **Appendix A**

## **Terrain Conditions in Surface Temperature Arrays**

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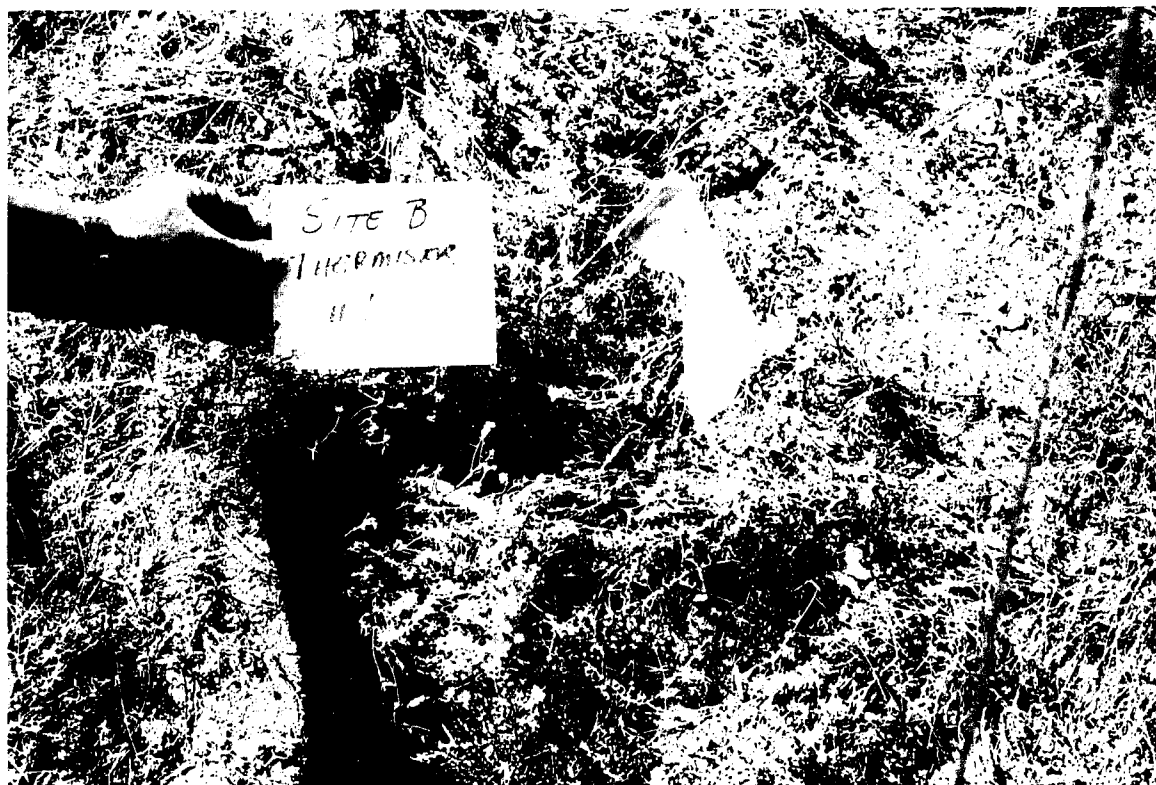


Figure A1. Site B thermistor Channel 1, 15 March 1993



Figure A2. Site B thermistor Channel 1, 30 April 1993



Figure A3. Site B thermistor Channel 2, 15 March 1993



Figure A4. Site B thermistor Channel 2, 30 April 1993

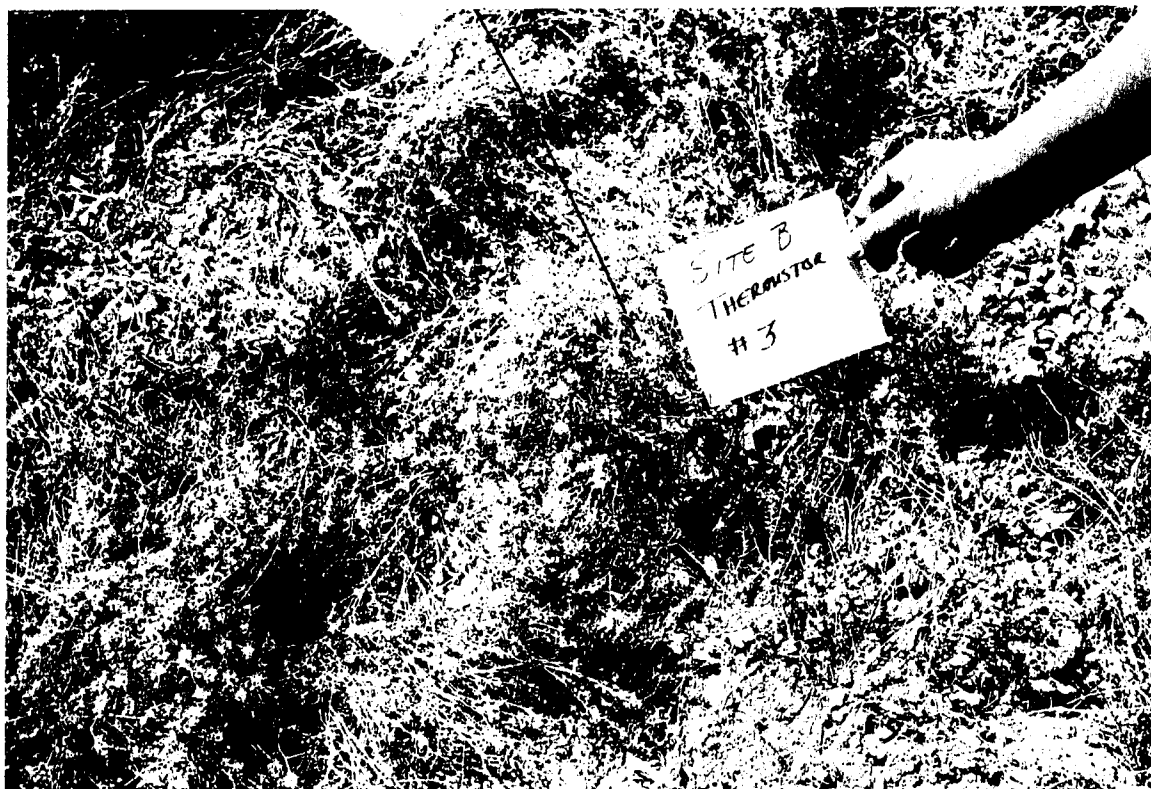


Figure A5. Site B thermistor Channel 3, 15 March 1993



Figure A6. Site B thermistor Channel 3, 30 April 1993



Figure A7. Site B thermistor Channel 4, 15 March 1993



Figure A8. Site B thermistor Channel 4, 30 April 1993



Figure A9. Site B thermistor Channel 5, 15 March 1993



Figure A10. Site B thermistor Channel 5, 30 April 1993





Figure A11. Site B thermistor Channel 6, 15 March 1993



Figure A12. Site B thermistor Channel 6, 30 April 1993



Figure A13. Site B thermistor Channel 7, 15 March 1993

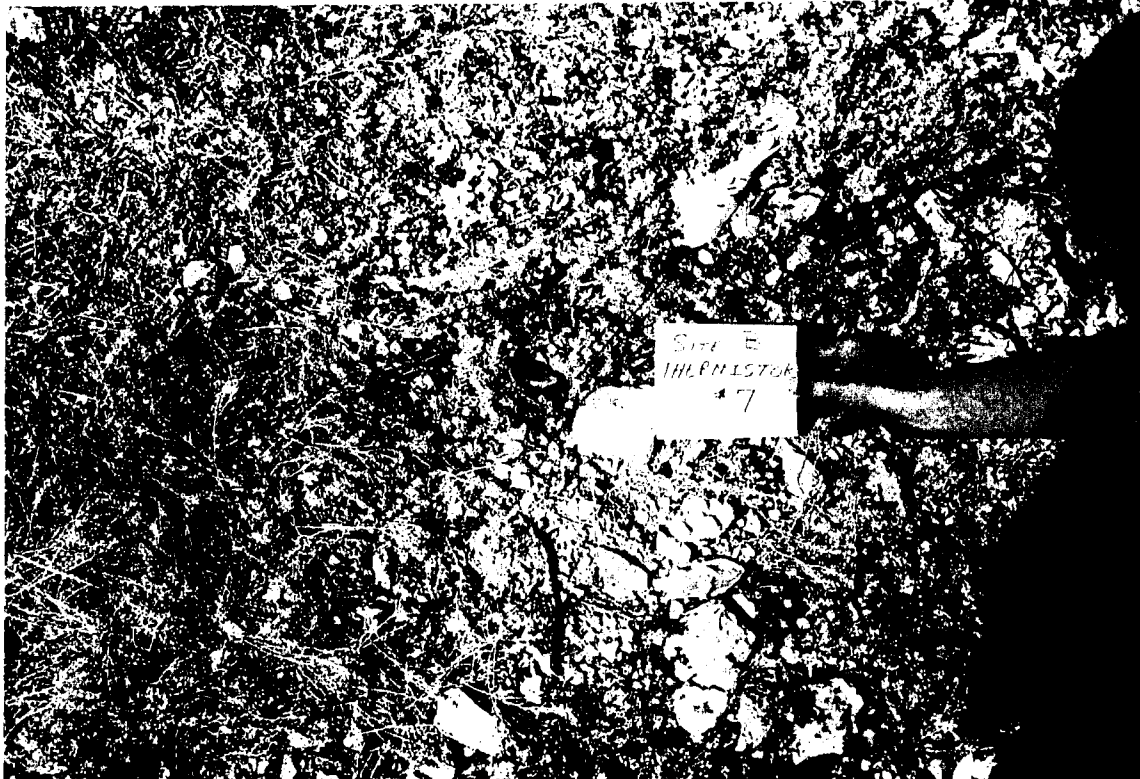


Figure A14. Site B thermistor Channel 7, 30 April 1993





Figure A15. Site B thermistor Channel 8, 15 March 1993



Figure A16. Site B thermistor Channel 8, 30 April 1993



Figure A17. Site B staring radiometer Channel 1, 15 March 1993

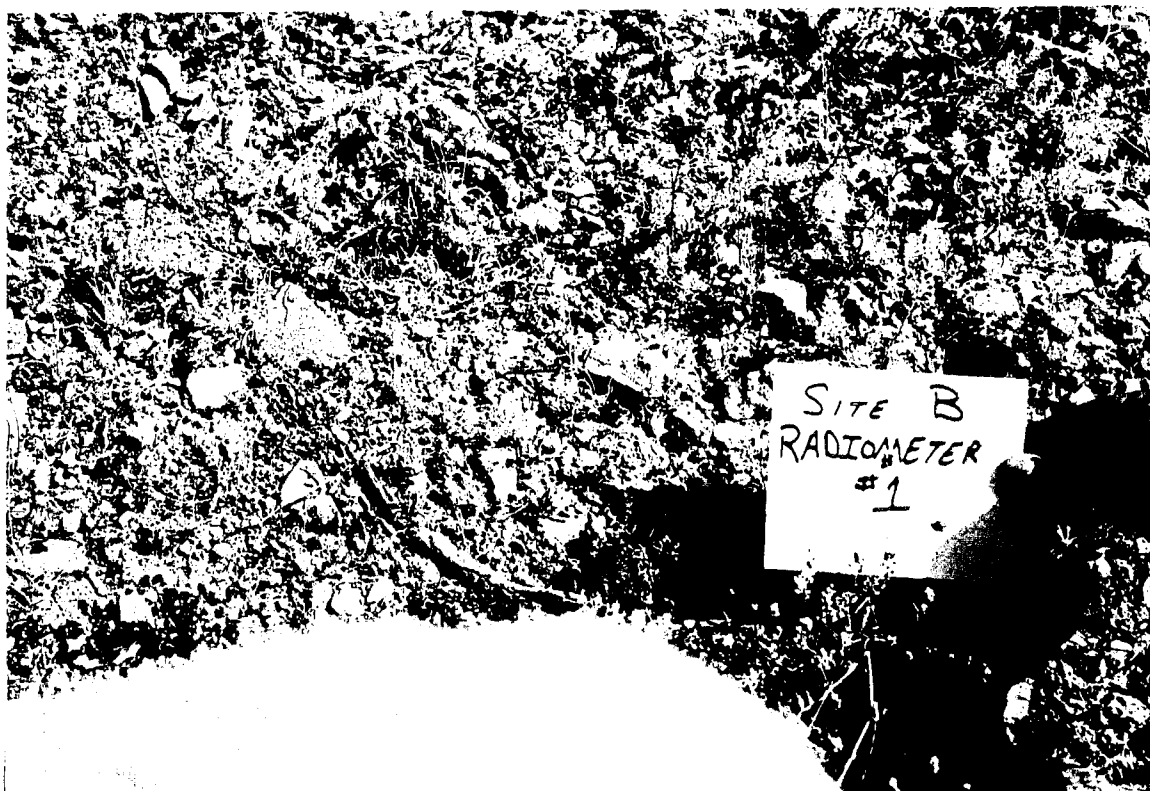


Figure A18. Site B staring radiometer Channel 1, 30 April 1993



Figure A19. Site B staring radiometer Channel 2, 15 March 1993



Figure A20. Site B staring radiometer Channel 2, 30 April 1993



Figure A21. Site B staring radiometer Channel 3, 15 March 1993

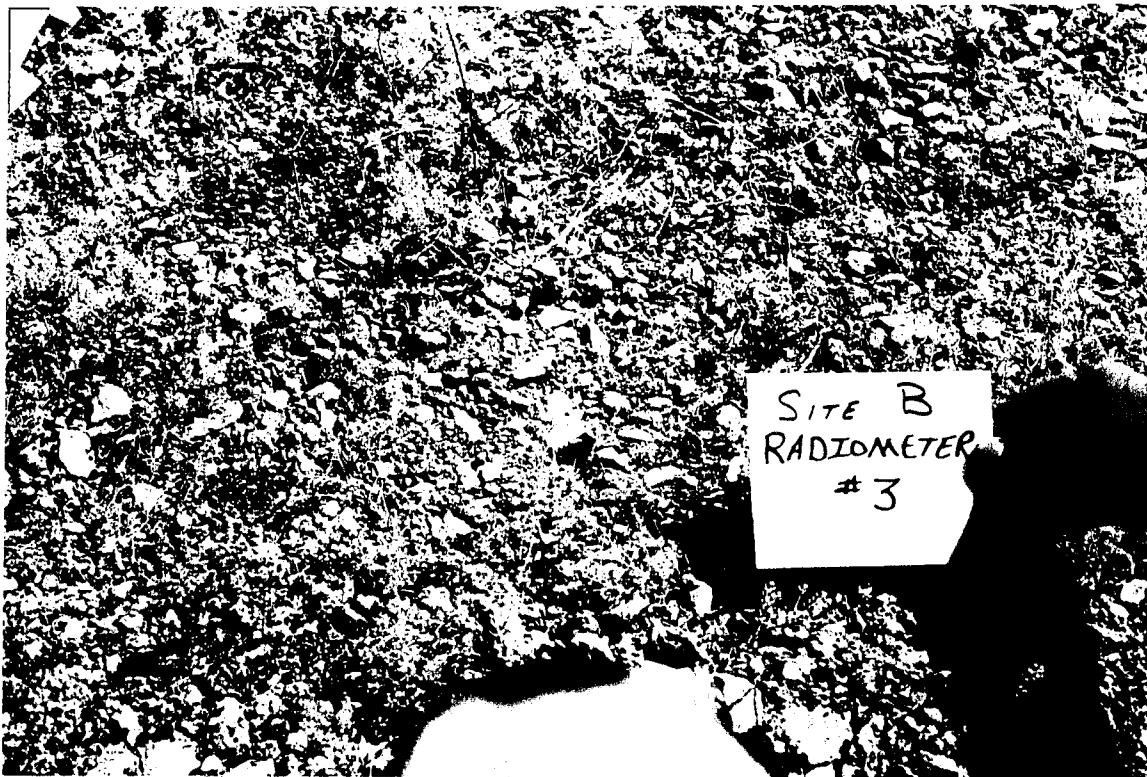


Figure A22. Site B staring radiometer Channel 3, 30 April 1993



Figure A23. Site B staring radiometer Channel 4, 15 March 1993



Figure A24. Site B staring radiometer Channel 4, 30 April 1993





Figure A25. Site E thermistor Channel 1, 15 March 1993



Figure A26. Site E thermistor Channel 1, 30 April 1993

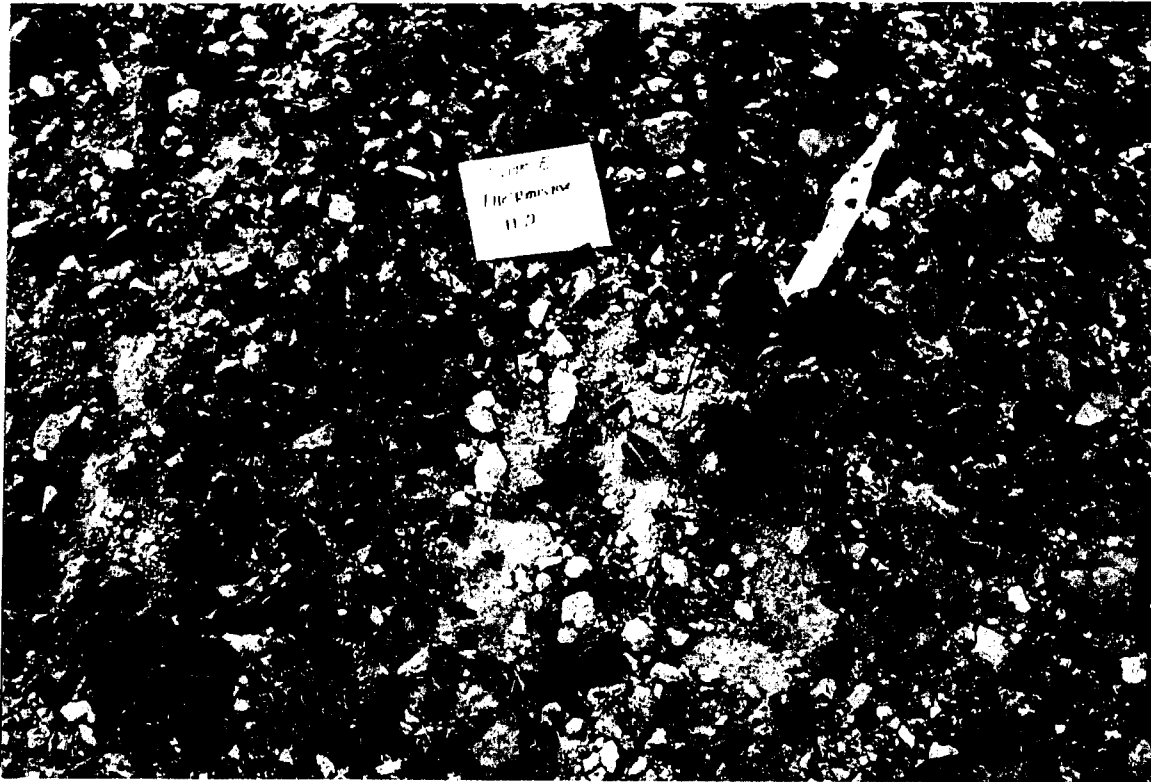


Figure A27. Site E thermistor Channel 2, 15 March 1993



Figure A28. Site E thermistor Channel 2, 30 April 1993



Figure A29. Site E thermistor Channel 3, 15 March 1993



Figure A30. Site E thermistor Channel 3, 30 April 1993





Figure A31. Site E thermistor Channel 4, 15 March 1993



Figure A32. Site E thermistor Channel 4, 30 April 1993

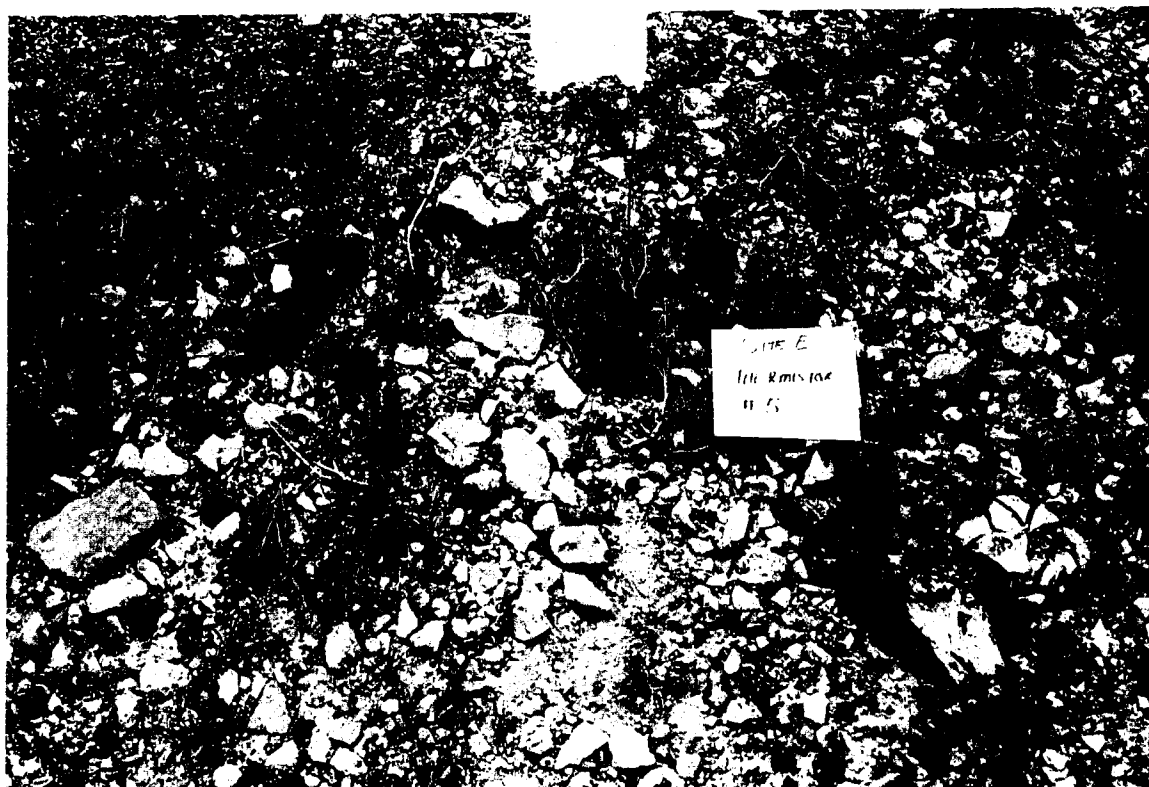


Figure A33. Site E thermistor Channel 5, 15 March 1993



Figure A34. Site E thermistor Channel 5, 30 April 1993



Figure A35. Site E thermistor Channel 6, 15 March 1993



Figure A36. Thermistor Channel 6, 30 April 1993



Figure A37. Site E thermistor Channel 7, 15 March 1993



Figure A38. Site E thermistor Channel 7, 30 April 1993



Figure A39. Site E thermistor Channel 8, 15 March 1993



Figure A40. Site E thermistor Channel 8, 30 April 1993



Figure A41. Site E staring radiometer Channel 1, 15 April 1993



Figure A42. Site E staring radiometer Channel 1, 30 April 1993





Figure A43. Site E staring radiometer Channel 2, 15 March 1993



Figure A44. Site E staring radiometer Channel 2, 30 April 1993



Figure A45. Site E staring radiometer Channel 3, 15 March 1993



Figure A46. Site E staring radiometer Channel 3, 30 April 1993





Figure A47. Site E staring radiometer Channel 4, 15 March 1993

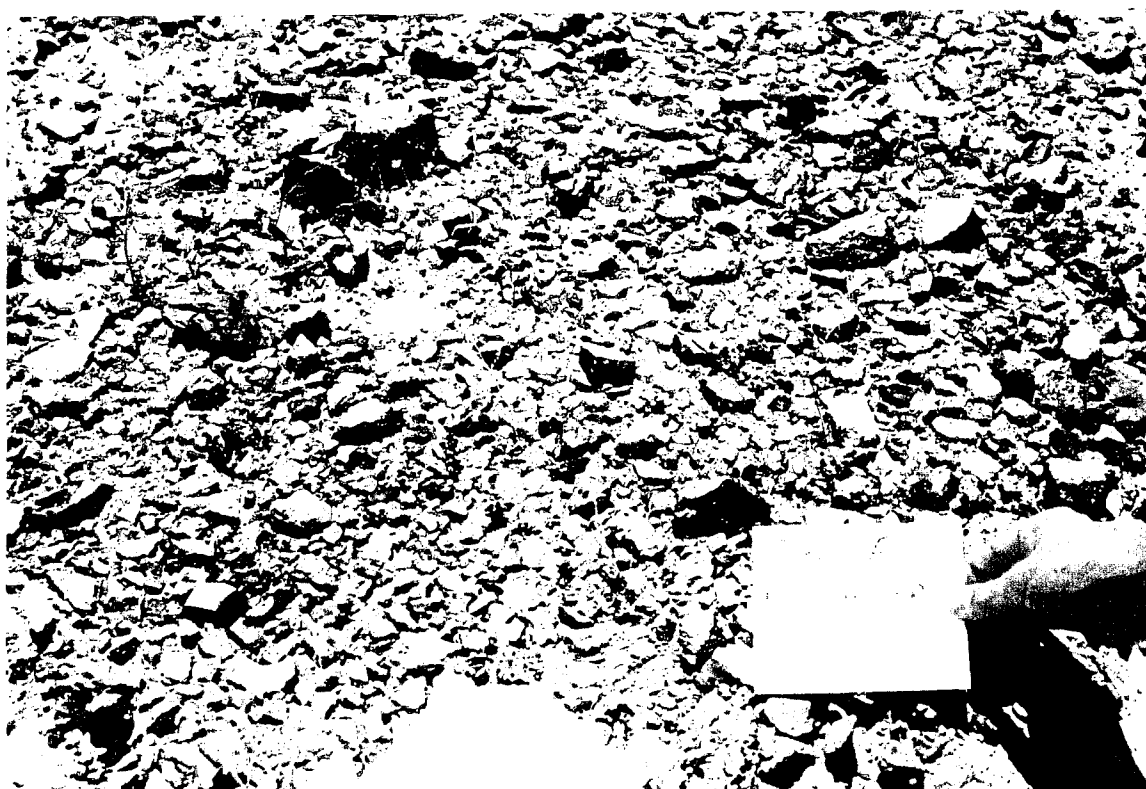


Figure A48. Site E staring radiometer Channel 4, 30 April 1993

# **Appendix B**

## **Terrain Conditions in Feature Arrays**

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Figure B1. Site B feature array Channel 1, 15 March 1993



Figure B2. Site B feature array Channel 1, 30 April 1993



Figure B3. Site B feature array Channel 2, 15 March 1993



Figure B4. Site B feature array Channel 2, 30 April 1993



Figure B5. Site B feature array Channel 3, 15 March 1993



Figure B6. Site B feature array Channel 3, 30 April 1993



Figure B7. Site B feature array Channel 4, 15 March 1993

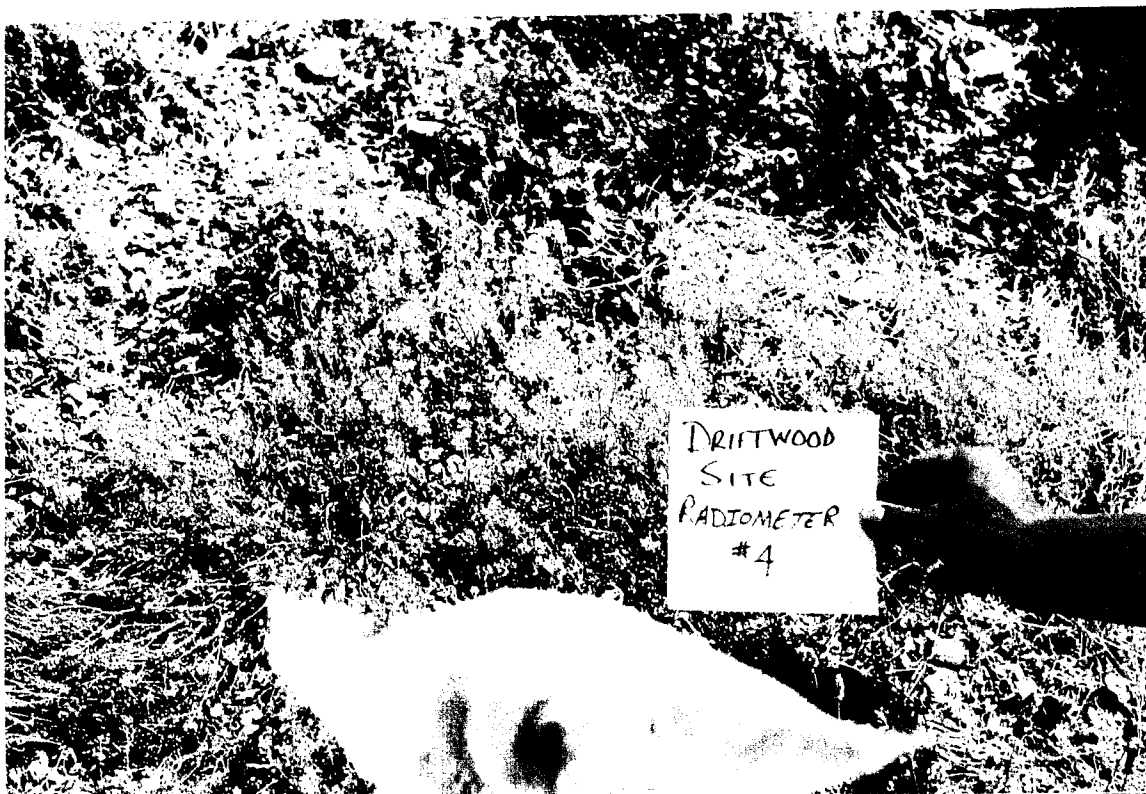


Figure B8. Site B feature array Channel 4, 30 April 1993





Figure B9. Site B feature array Channel 5, 15 March 1993



Figure B10. Site B feature array Channel 5, 30 April 1993



Figure B11. Site B feature array Channel 6, 15 March 1993



Figure B12. Site B feature array Channel 6, 30 April 1993





Figure B13. Site B feature array Channel 7, 15 March 1993



Figure B14. Site B feature array Channel 7, 30 April 1993



Figure B15. Site B feature array Channel 8, 15 March 1993



Figure B16. Site B feature array Channel 8, 30 April 1993



Figure B17. Site D feature array Channel 1, 15 March 1993

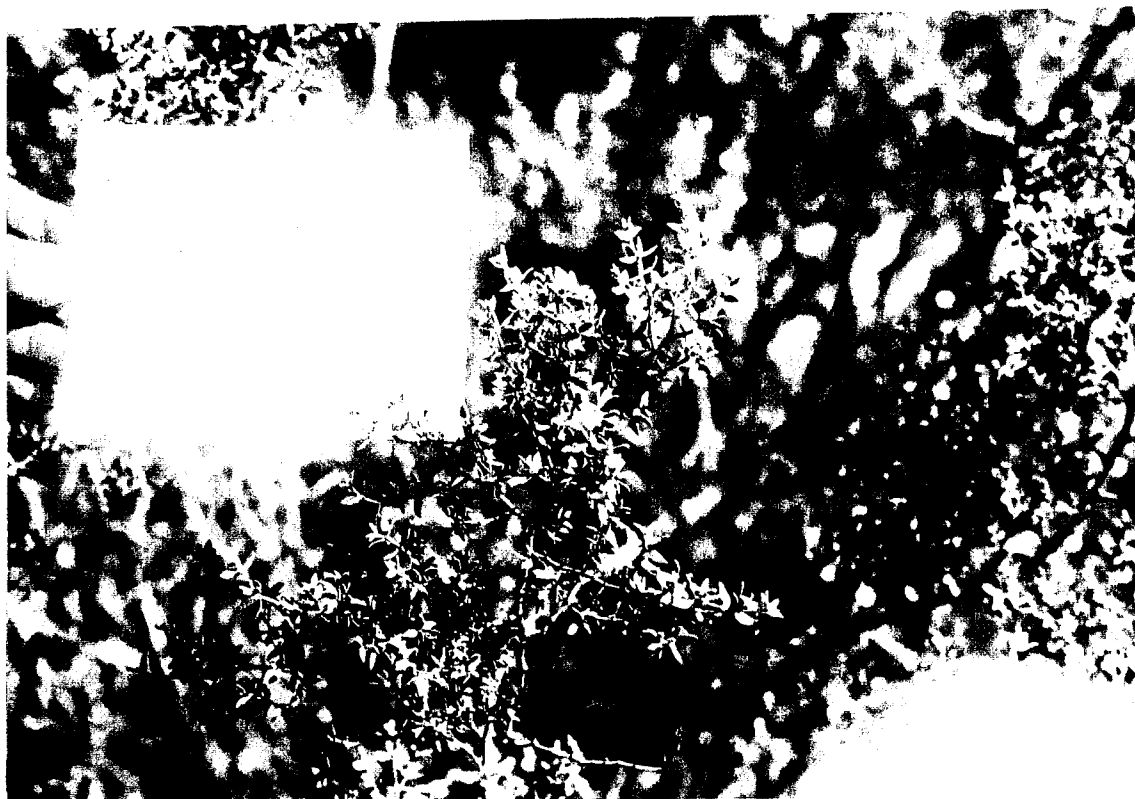


Figure B18. Site D feature array Channel 1, 30 April 1993



Figure B19. Site D feature array Channel 2, 15 March 1993



Figure B20. Site D feature array Channel 2, 30 April 1993



Figure B21. Site D feature array Channel 3, 15 March 1993

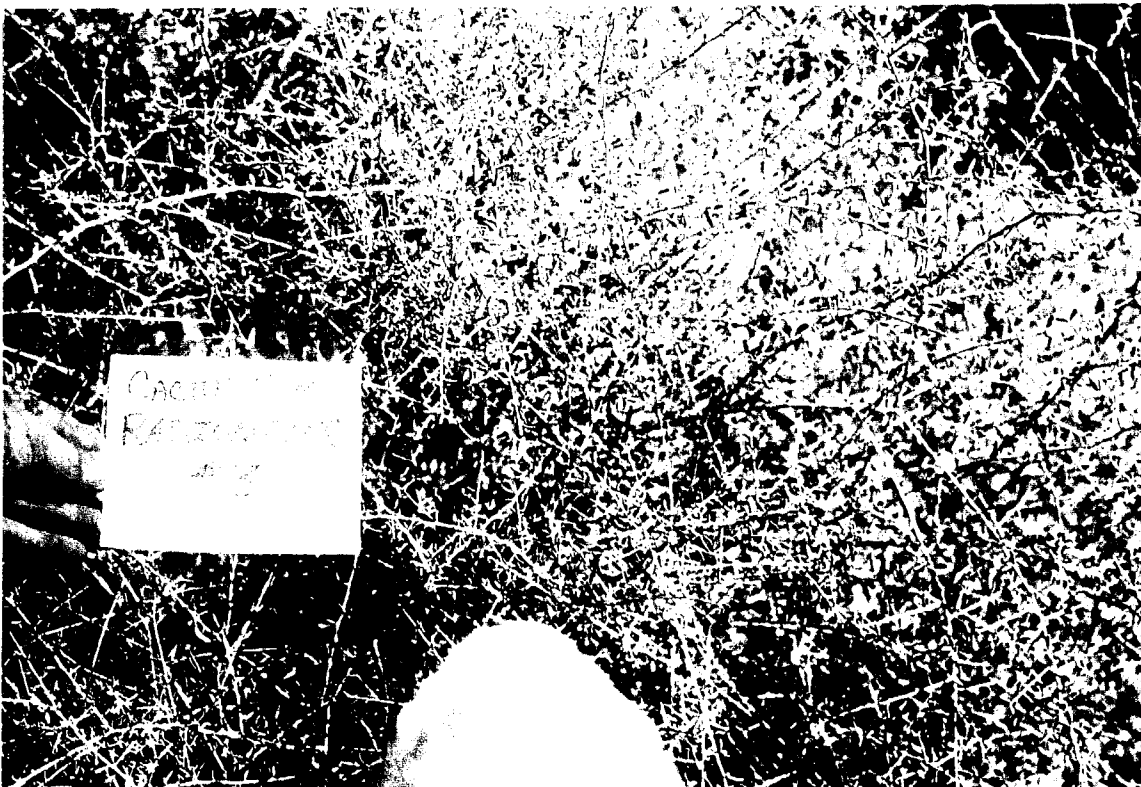


Figure B22. Site D feature array Channel 3, 30 April 1993



Figure B23. Site D feature array Channel 4, 15 March 1993



Figure B24. Site D feature array Channel 4, 30 April 1993





Figure B25. Site D feature array Channel 5, 15 March 1993



Figure B26. Site D feature array Channel 5, 30 April 1993



Figure B27. Site D feature array Channel 6, 15 March 1993



Figure B28. Site D feature array Channel 6, 30 April 1993





Figure B29. Site D feature array Channel 7, 15 March 1993



Figure B30. Site D feature array Channel 7, 30 April 1993



Figure B31. Site D feature array Channel 8, 15 March 1993

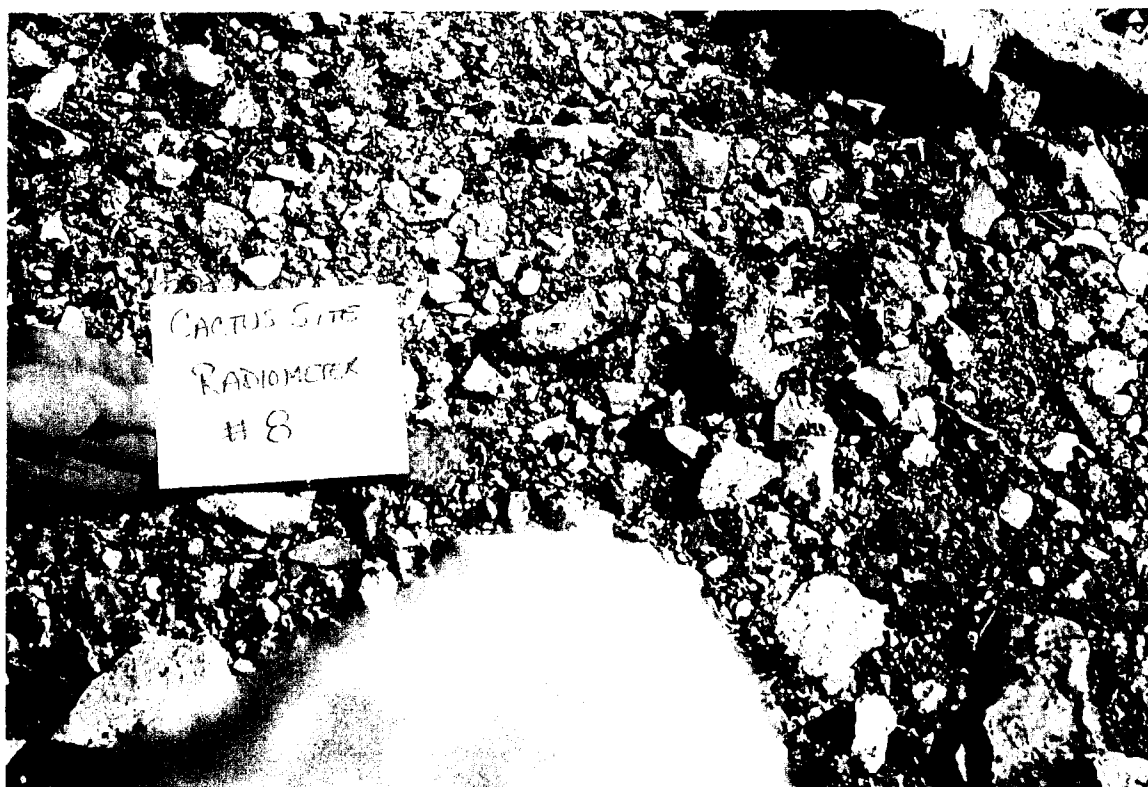


Figure B32. Site D feature array Channel 8, 30 April 1993

# **Appendix C**

## **Results of 1988 Soils Analysis**

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The locations where the soil samples were taken in the 1988 wide area mine study is shown below in Table C1.

<b>Table C1 Soil Sample Site Locations</b>		
<b>Sample Site</b>	<b>East, m</b>	<b>North, m</b>
N1	756923	3652019
N2	756570	3651695
N3	756216	3651178
N4	755884	3652274
N5	755480	3652143
N6	755125	3652227
S1	7560851	3649534
S2	756502	3648888
S3	756191	3649804
S4	755816	3649395
S5	755401	3649933
S6	755074	3649893

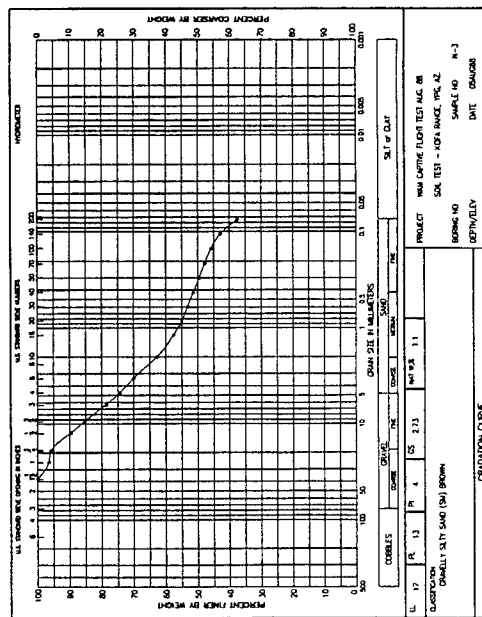
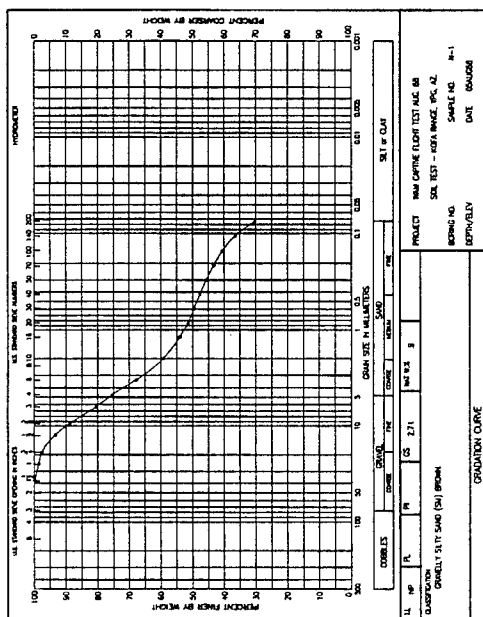
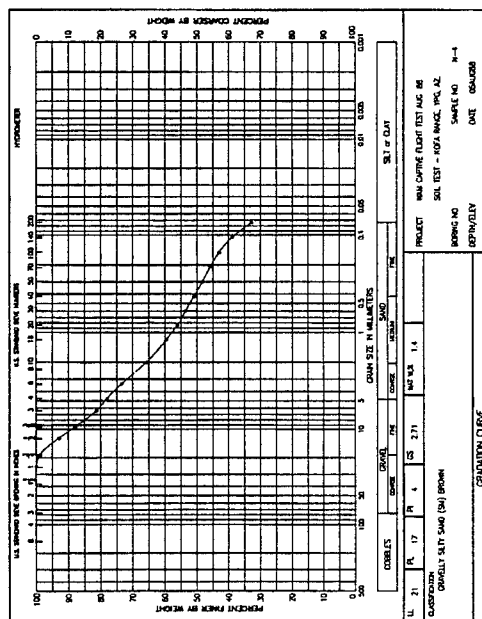
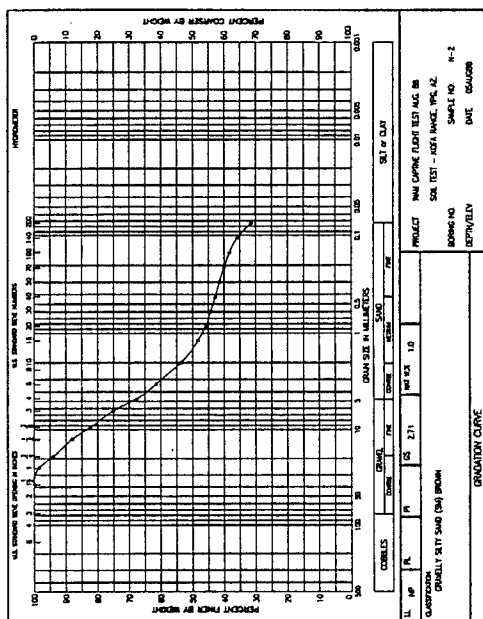


Figure C1. Soil gradation curves (locations N1, N2, N3, and N4)



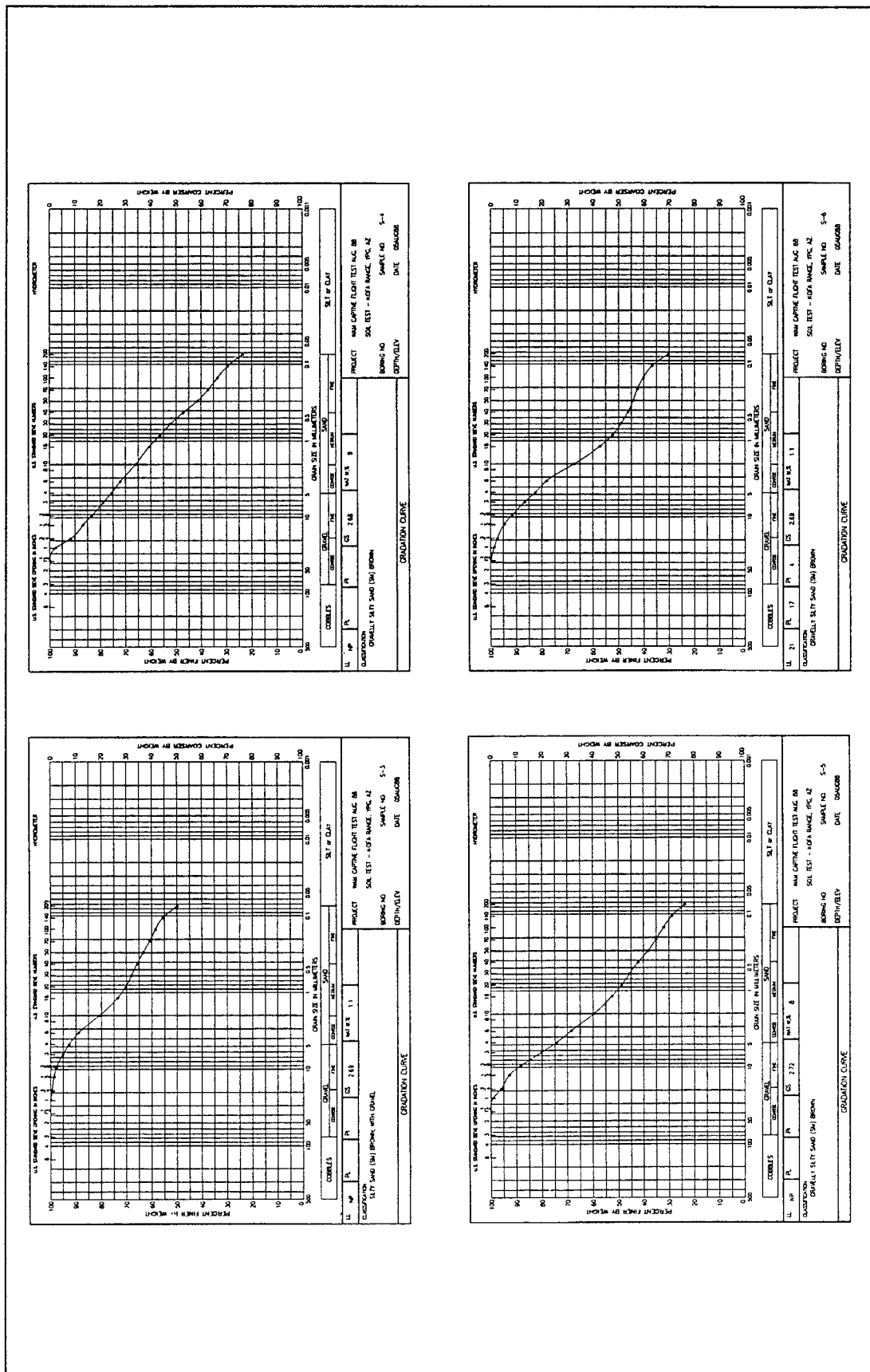


Figure C3. Soil gradation curves (locations S3, S4, S5, and S6)

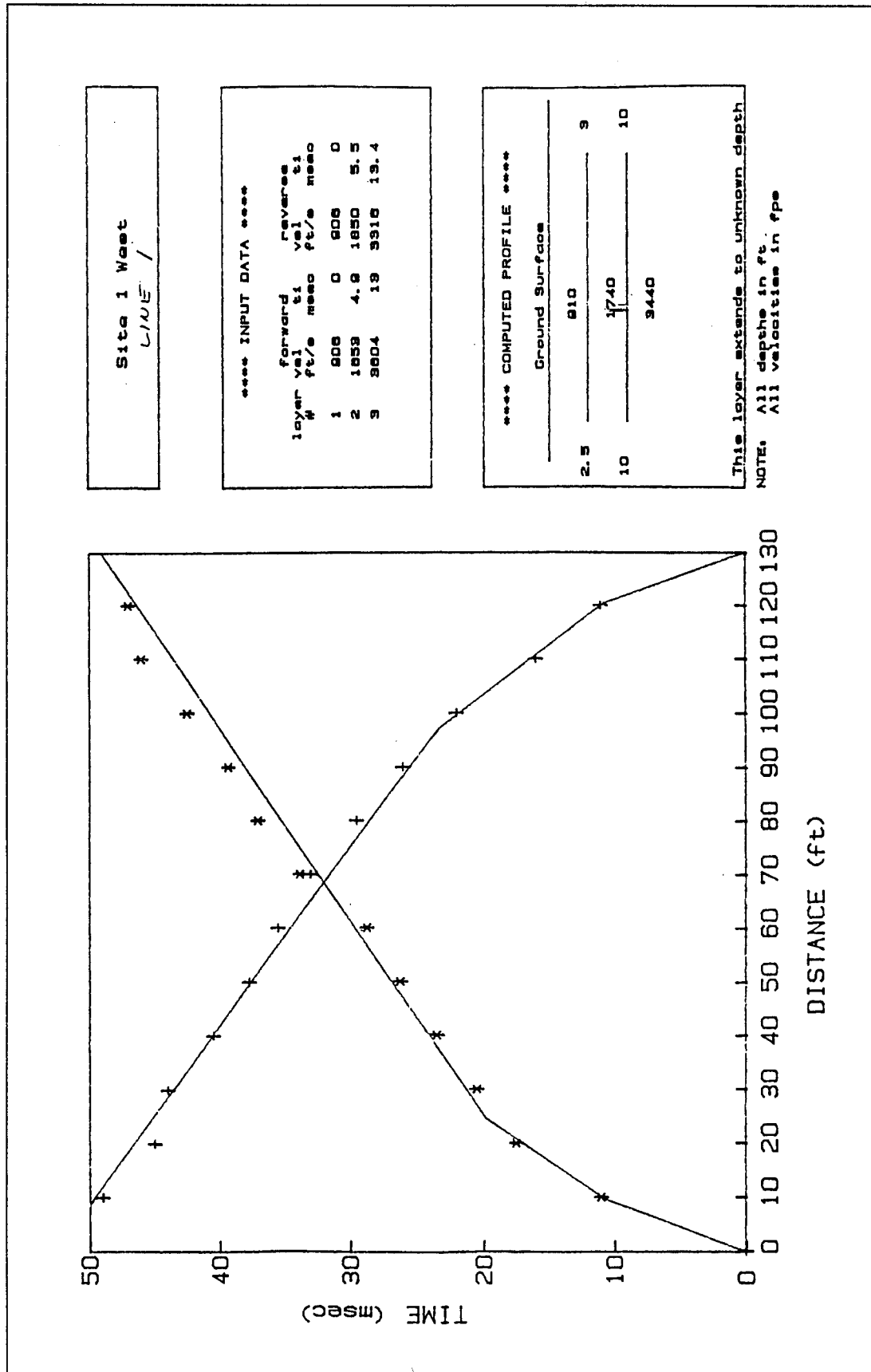


Figure C4. Time versus distance plot for seismic refraction line 1, east-west, at the Honeywell sensor line location



Table C2 Summary of Soil Characteristics of Terrain Types										
Terrain Type	Sample Location	Grain-Size Distribution			Moisture %	Specific Gravity	Classification		Atterburg Limit <sup>1</sup>	Micro-terrain Roughness RMS, cm
		Gravel %	Sand %	Silt/Clay %			Color	Texture		
Pavement	N5	2	18	80	2.2	2.73	Brown	Sandy silty clay (CL-ML)	21/15/6	0.37
	S2	4	22	74	2.4	2.75	Brown	Sandy silty clay (CL-ML) trace of gravel	21/16/5	--
Pavement wash	N2	33	35	32	1.0	2.71	Brown	Gravelly silty sand (SM)	NP	0.64
	N4	22	45	33	1.4	2.71	Brown	Gravelly silty sand (SM)	21/17/4	--
	N1	25	45	30	0.9	2.71	Brown	Gravelly silty sand (SM)	NP	1.78
	N3	26	37	37	1.1	2.73	Brown	Gravelly silty sand (SM)	17/13/4	--
Secondary wash	N6	20	62	18	1.0	2.68	Brown	Gravelly silty sand (SM)	NP	--
	S4	25	49	24	0.9	2.68	Brown	Gravelly silty sand (SM)	NP	--
	S5	25	50	24	0.8	2.72	Brown	Gravelly silty sand (SM)	NP	--
	S6	17	53	30	1.1	2.69	Brown	Gravelly silty sand (SM)	21/17/4	--
Developed wash	S1	33	45	22	0.7	2.70	Brown	Gravelly silty sand (SM)	NP	1.94
	S3	7	43	50	1.1	2.69	Brown	Silty sand (GM) with gravel	NP	--
<sup>1</sup> Liquid limit/plastic limit/plasticity index; NP = not plastic.										

**Table C3**  
**Material Types and Locations Sampled by Staring Radiometers**

Illumination Condition	Not in Wash			In Developed Wash			Vegetation				
	Desert Pavement	Light Gravel	Sand	Gravel	Sand	Mud	Creosote Bush	Paloverde Tree	Ironwood Tree	White Bur Sage	Dead Tree
Full sun	CH3-1 CH3-2 CH3-3	CH3-5 CH3-6 CH1-5	CH1-4		CH1-7	CH2-8	CH2-6 CH2-7 CH1-2 CH1-6	CH1-8	CH2-2	CH3-8 CH2-4	
Morning shade		CH3-4		CH1-3 CH2-3 CH3-7							CH2-5
Afternoon shade		CH1-1									
Full shade		CH2-1 <sup>1</sup>		CH2-1 <sup>1</sup>							
<sup>1</sup> Under paloverde tree.											

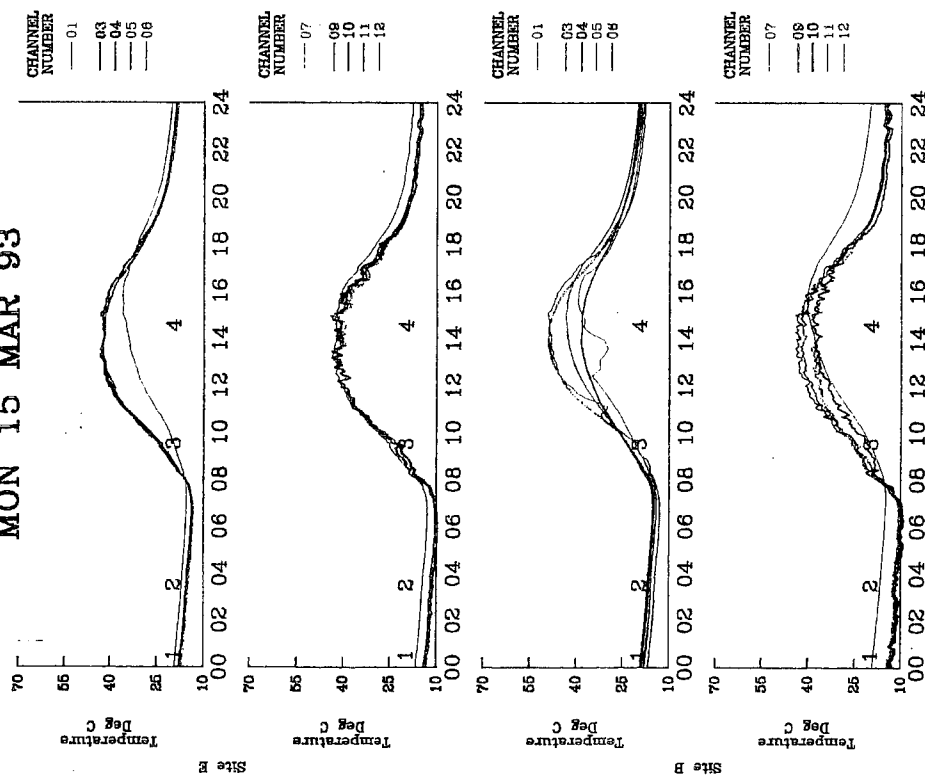
# **Appendix D**

## **Daily Surface Temperature Array Plots**

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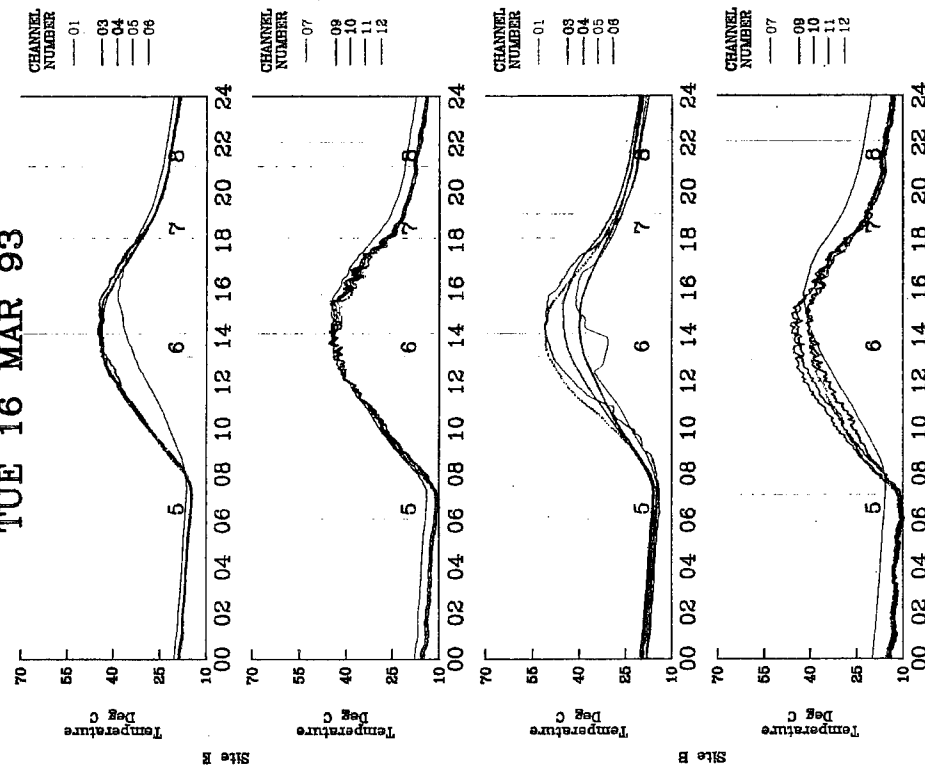
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## MON 15 MAR 93

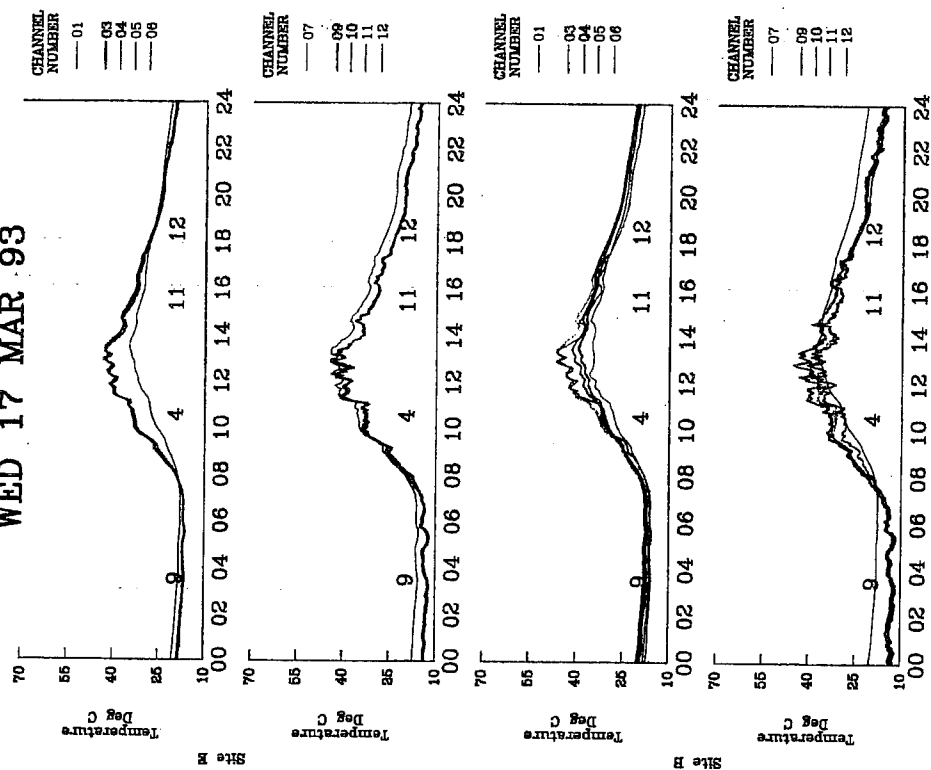


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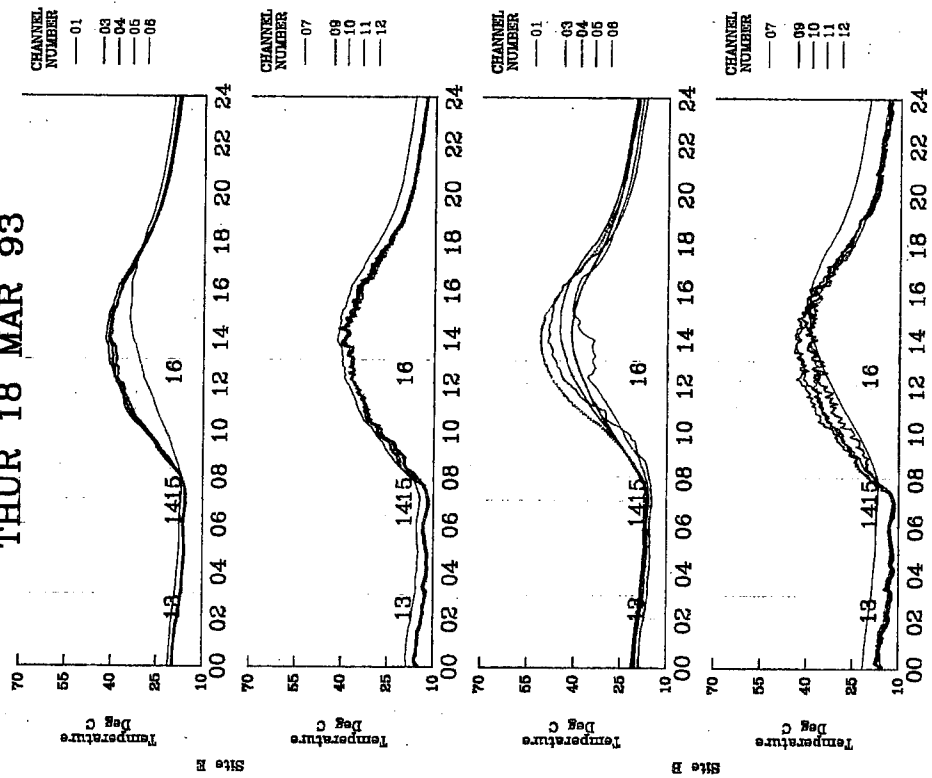
## TUE 16 MAR 93



# Thermal Data WED 17 MAR 93

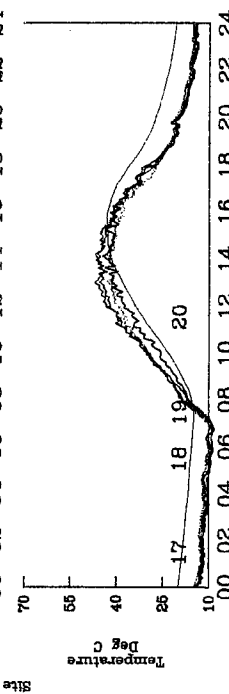
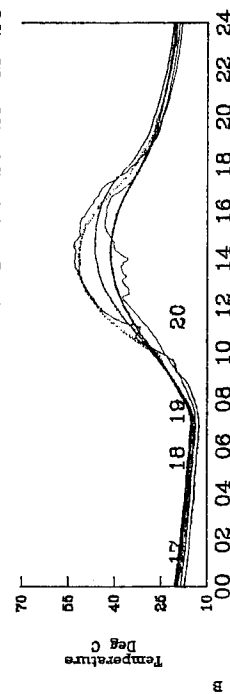
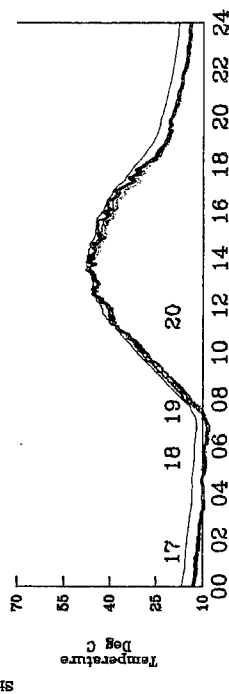
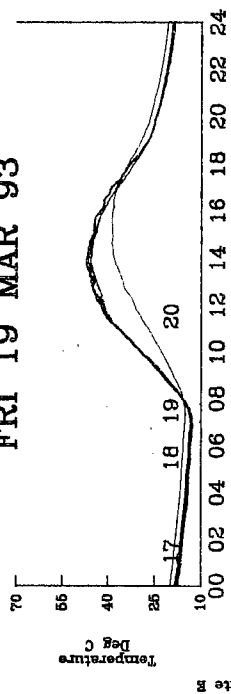


# Thermal Data THUR 18 MAR 93



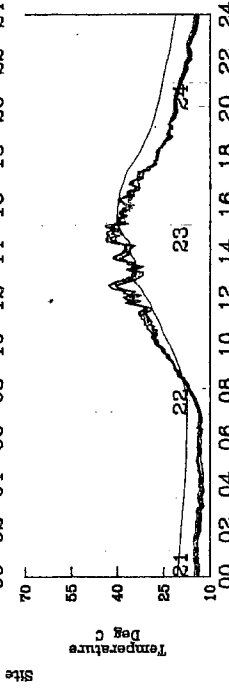
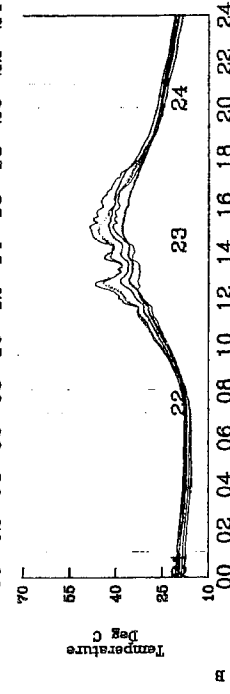
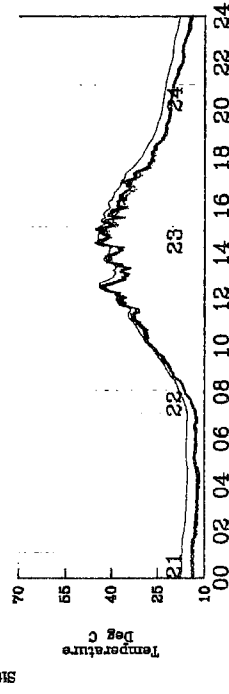
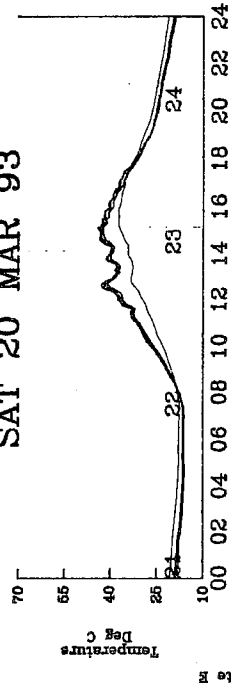
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## FRI 19 MAR 93

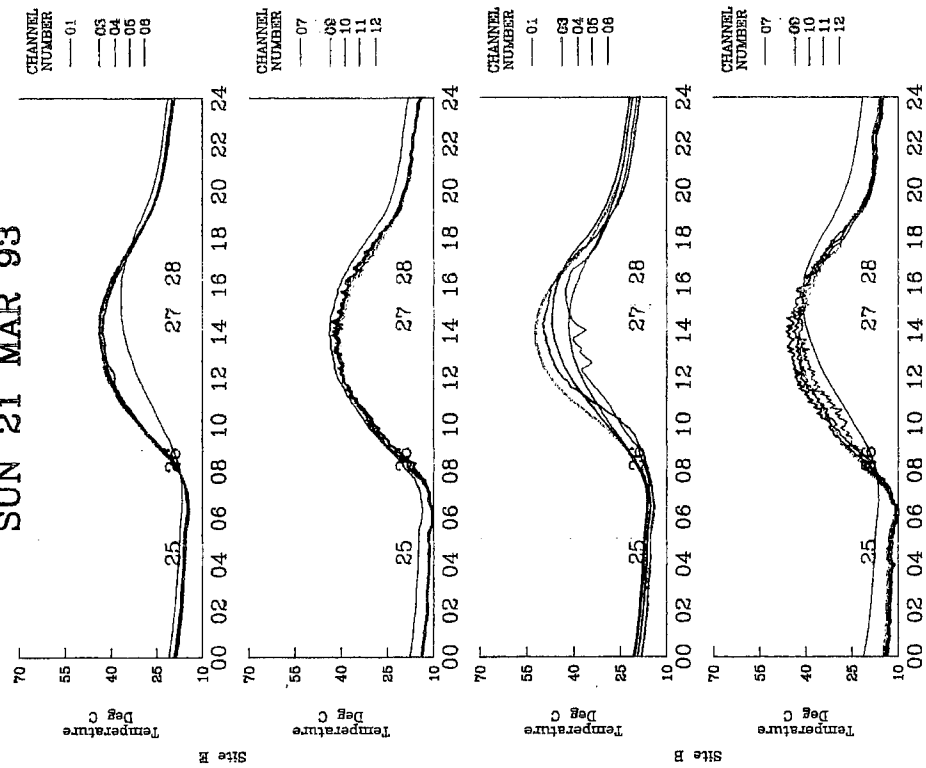


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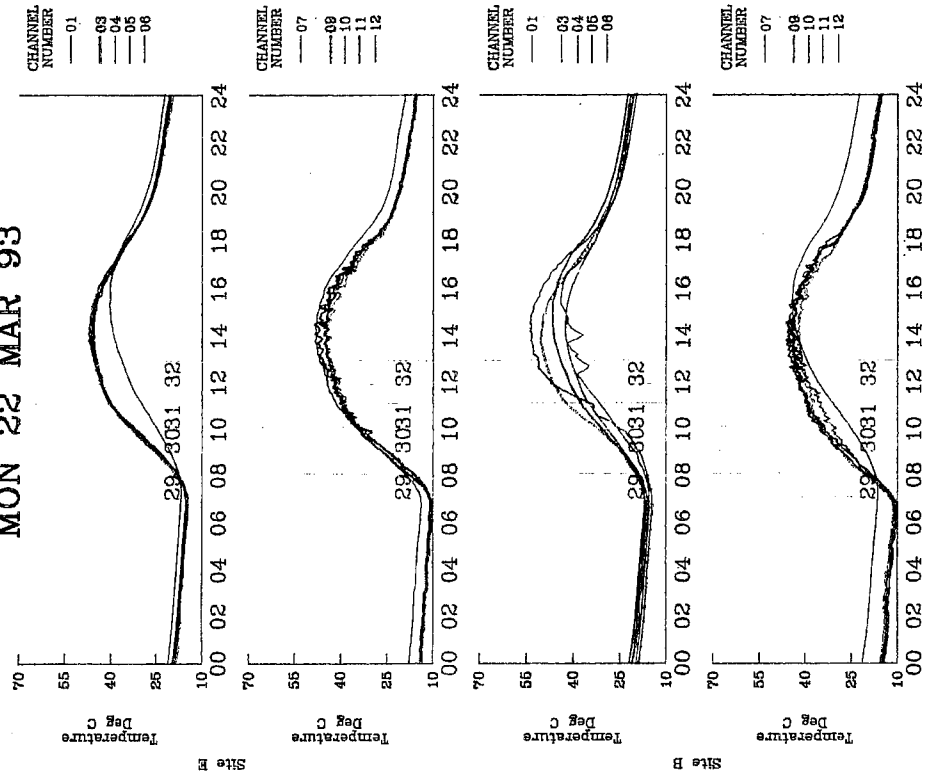
## SAT 20 MAR 93



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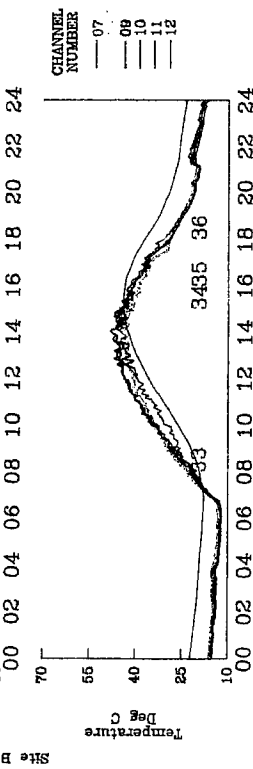
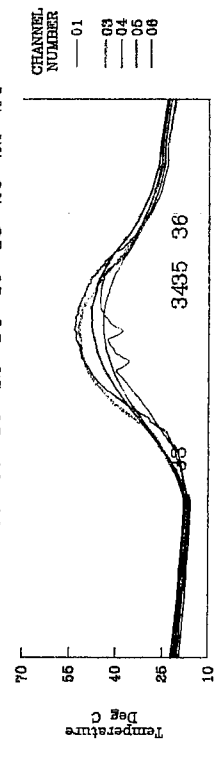
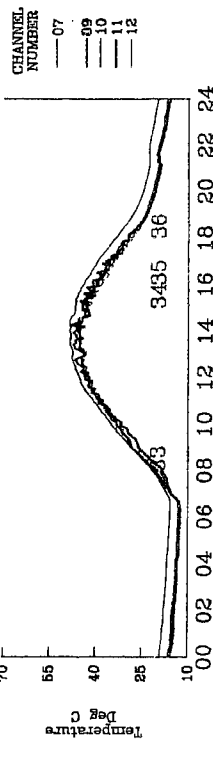
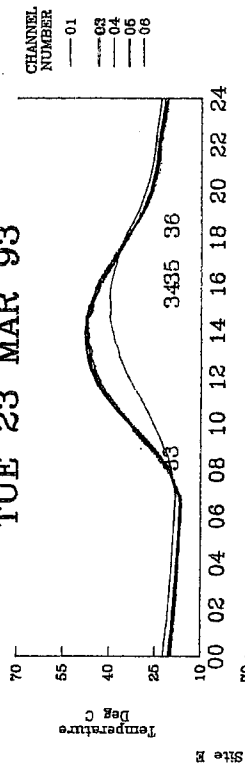


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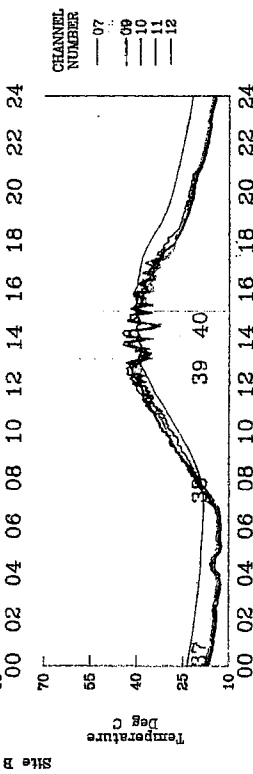
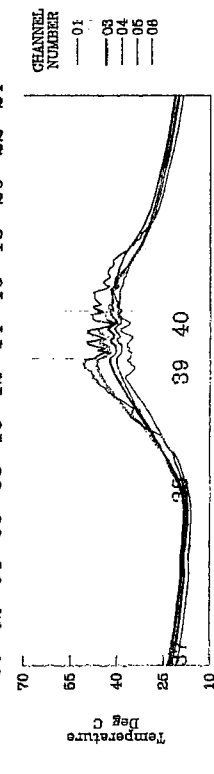
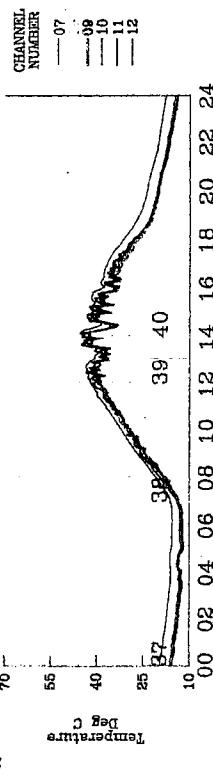
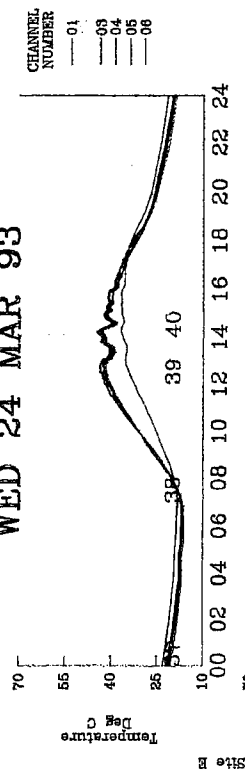
# Thermal Data

TUE 23 MAR 93



# Thermal Data

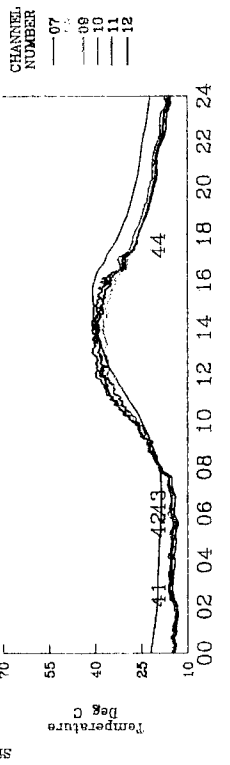
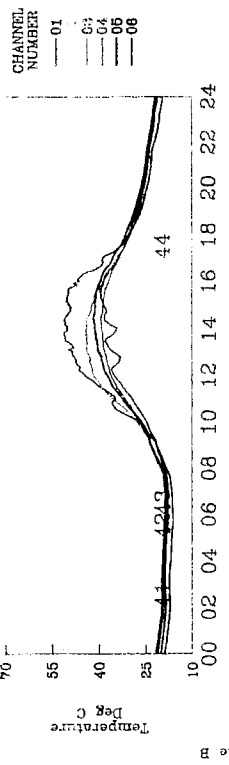
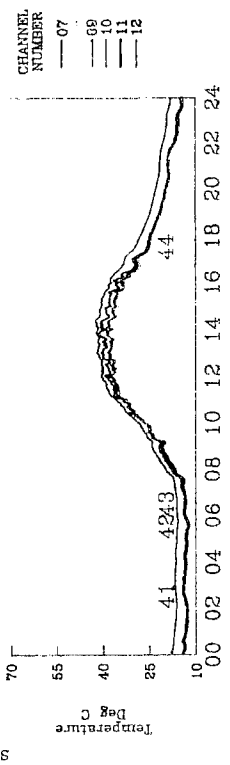
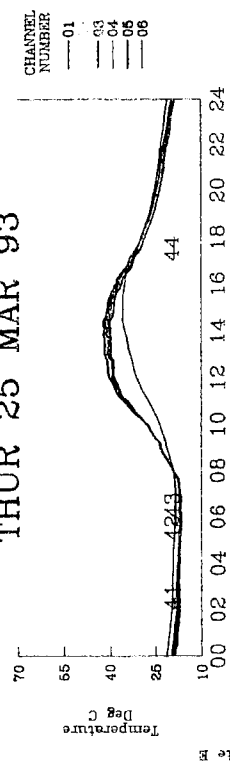
WED 24 MAR 93





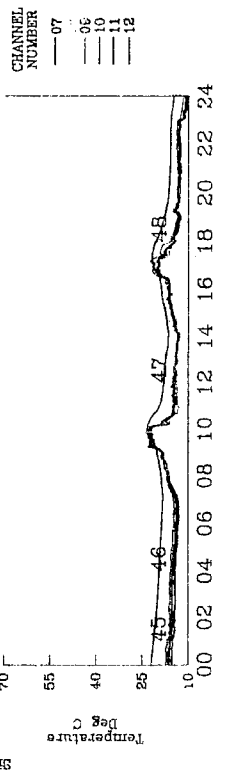
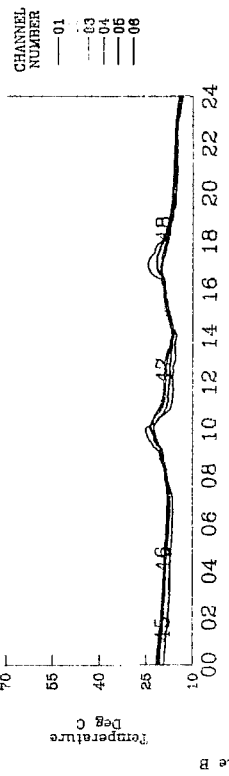
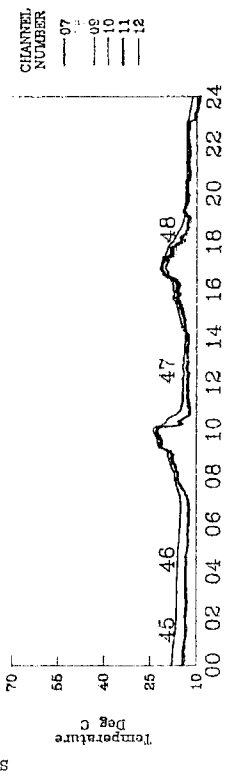
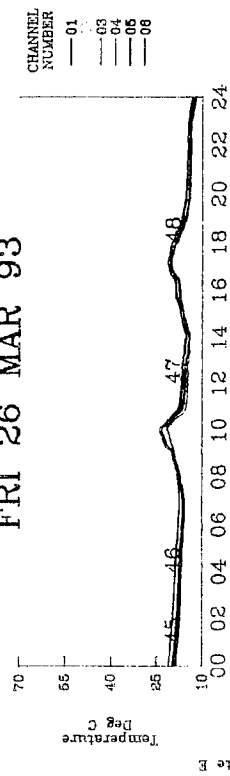
# Thermal Data

## THUR 25 MAR 93



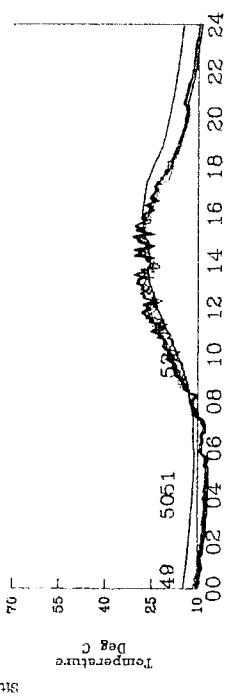
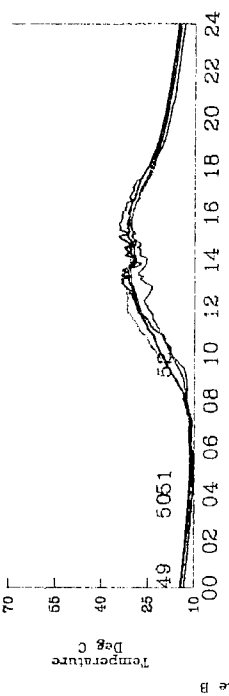
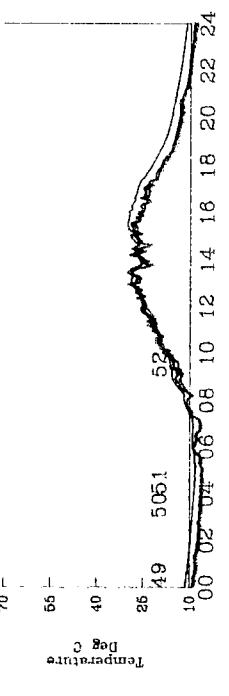
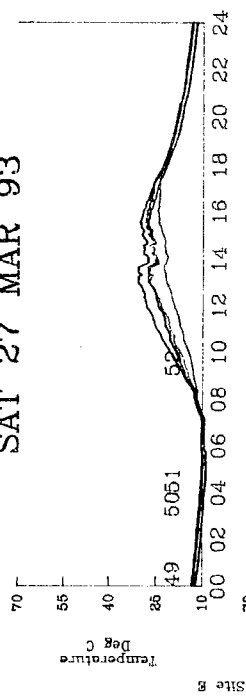
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## FRI 26 MAR 93



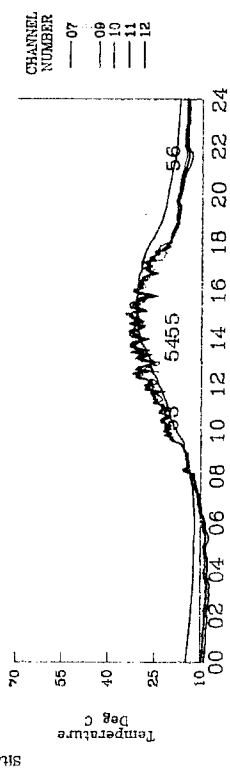
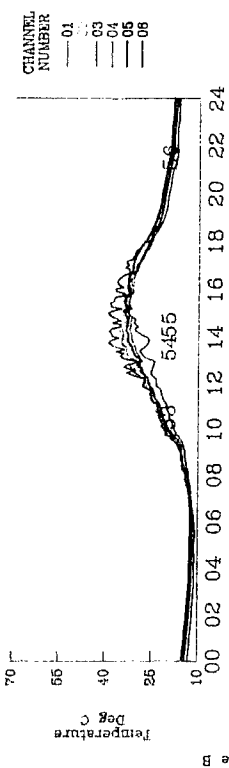
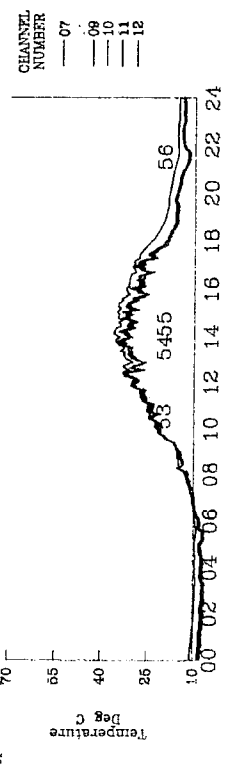
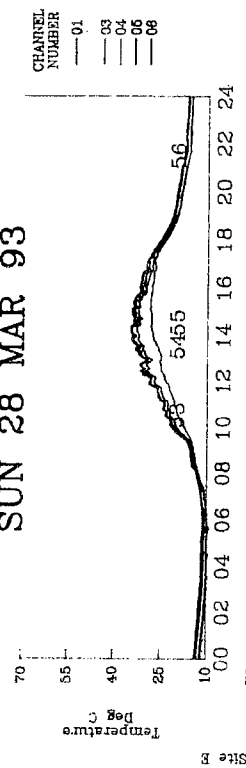
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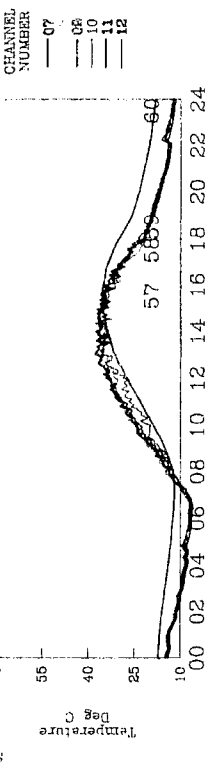
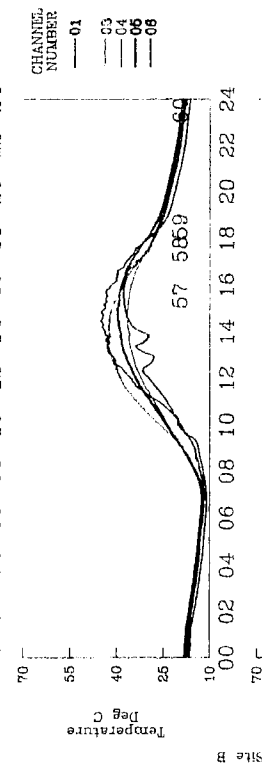
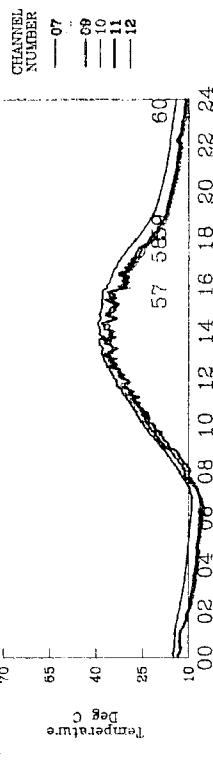
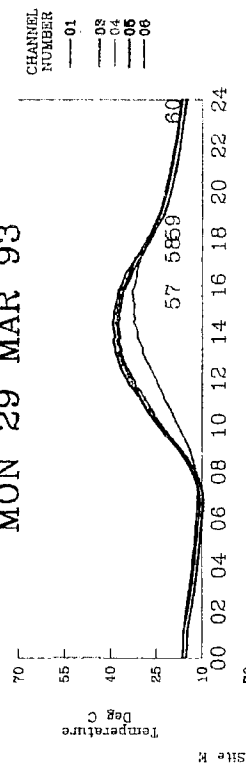


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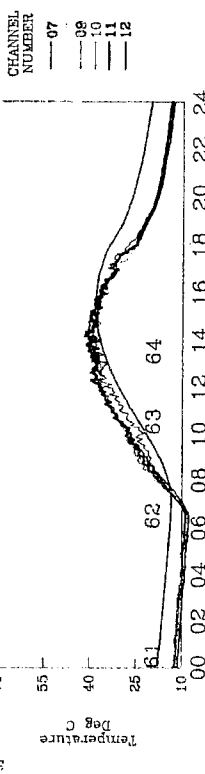
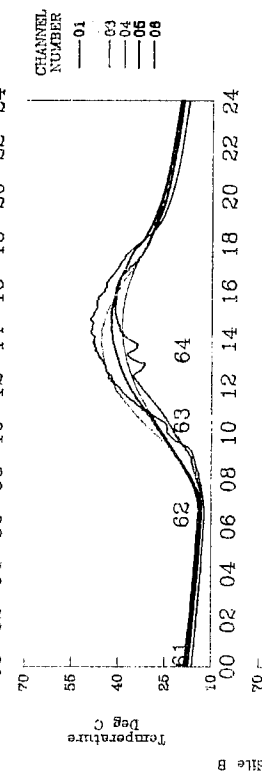
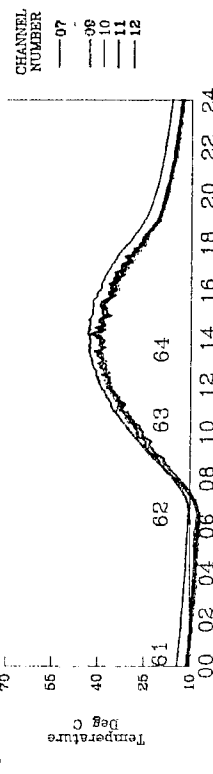
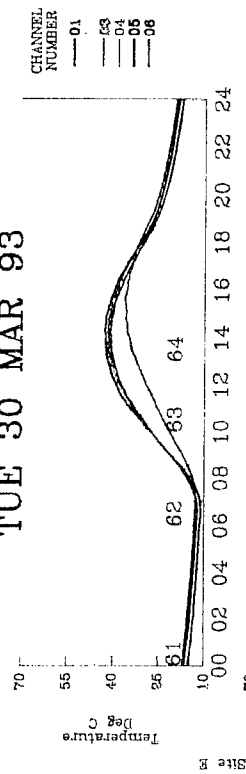
## SUN 28 MAR 93



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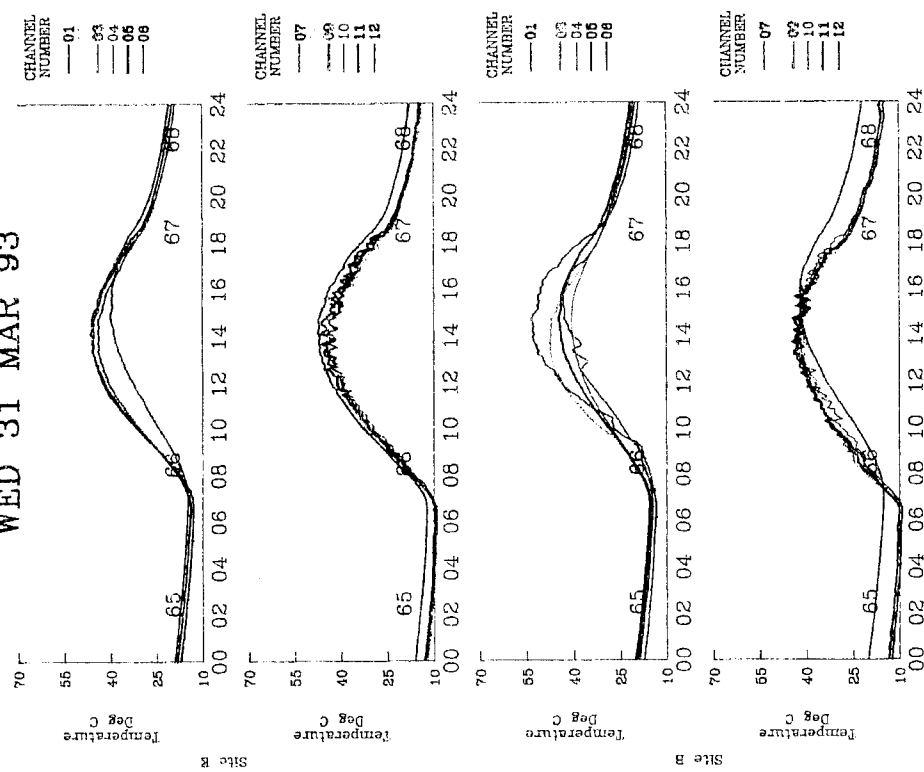


# Thermal Data TUE 30 MAR 93



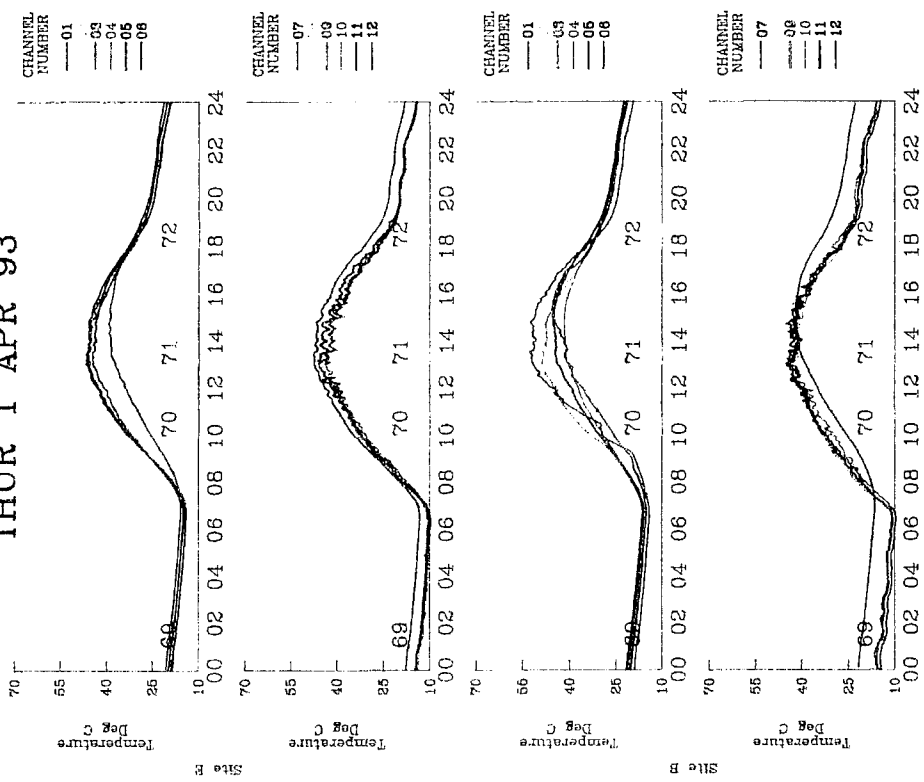
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## WED 31 MAR 93



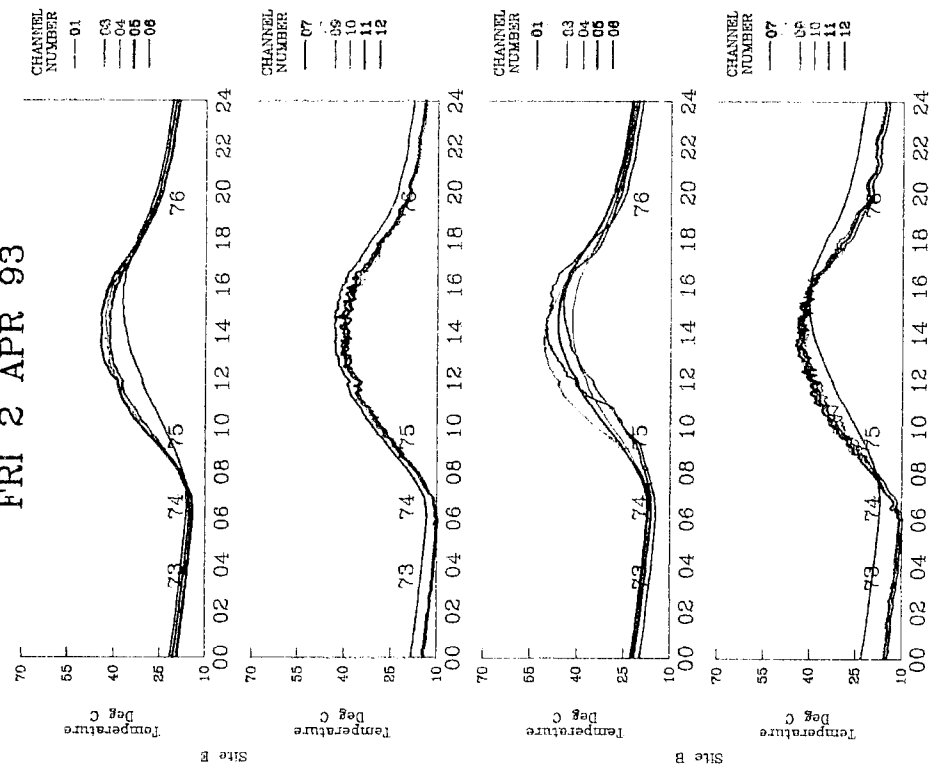
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## THUR 1 APR 93



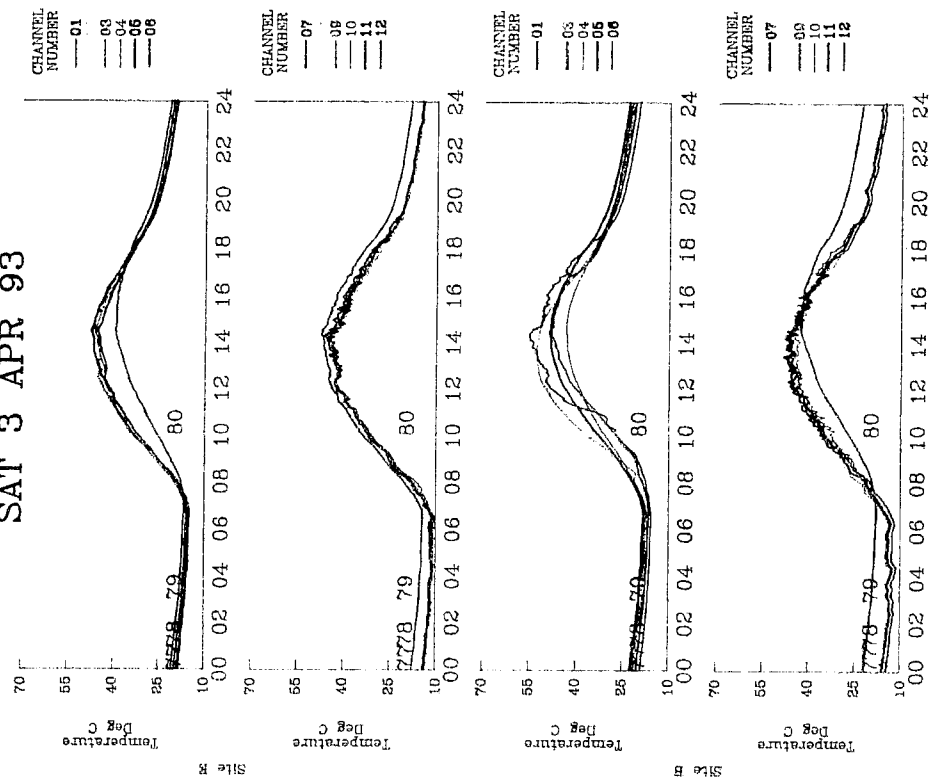
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FRI 2 APR 93



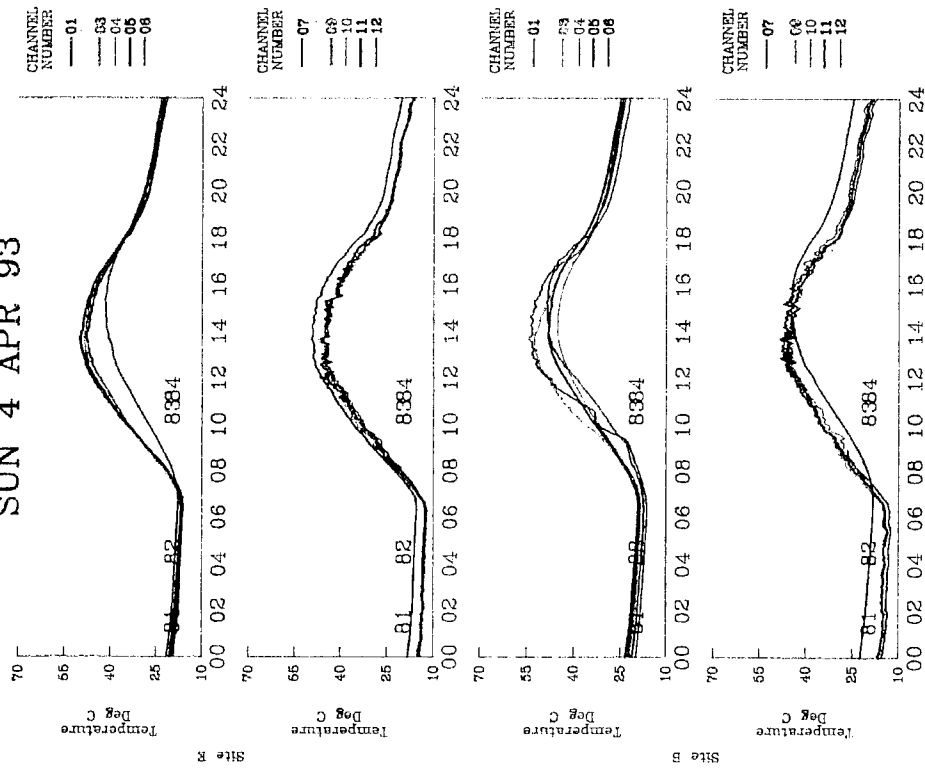
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SAT 3 APR 93



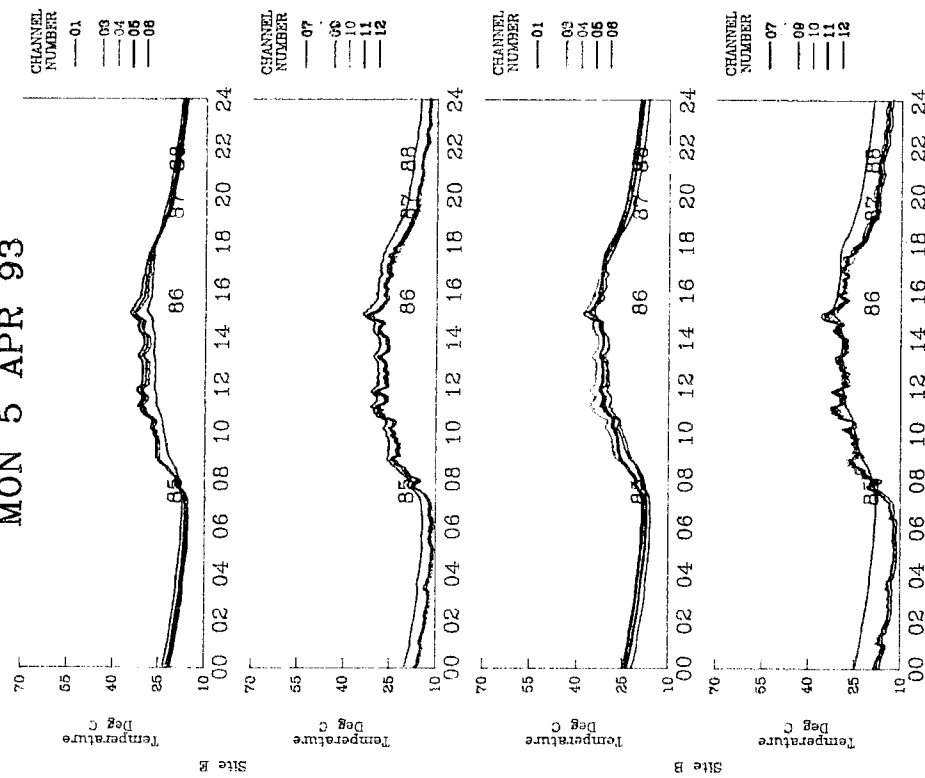
# Thermal Data

SUN 4 APR 93



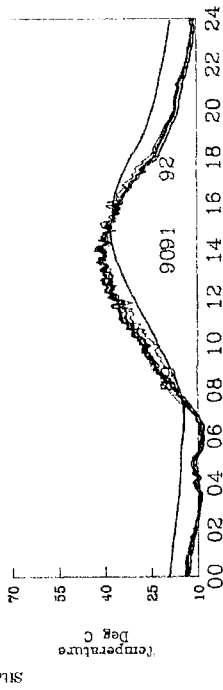
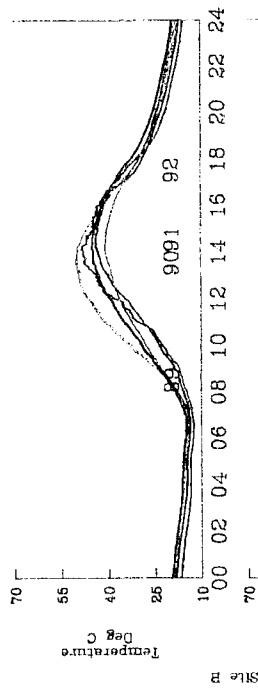
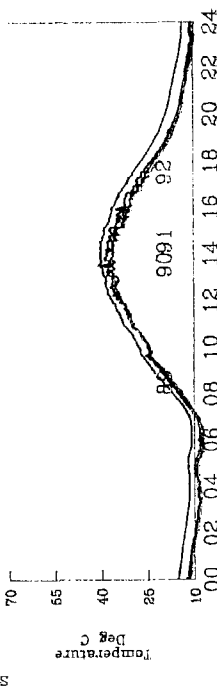
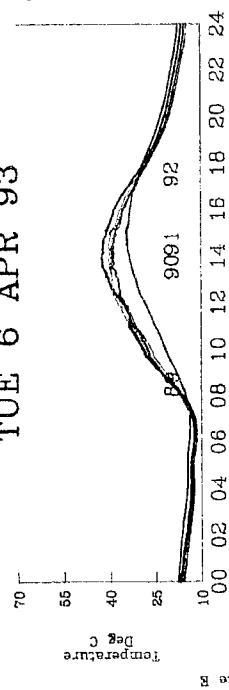
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MON 5 APR 93



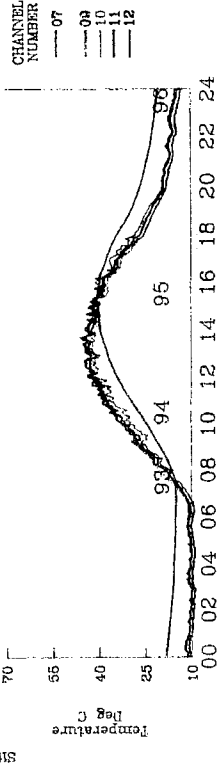
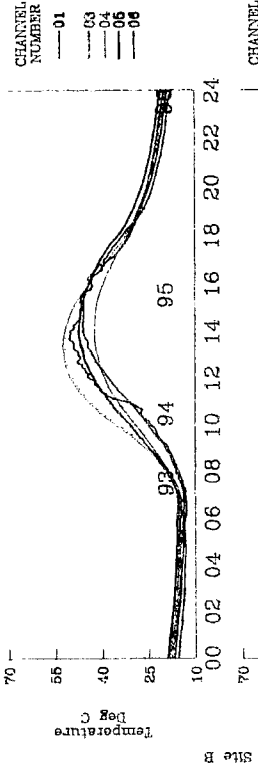
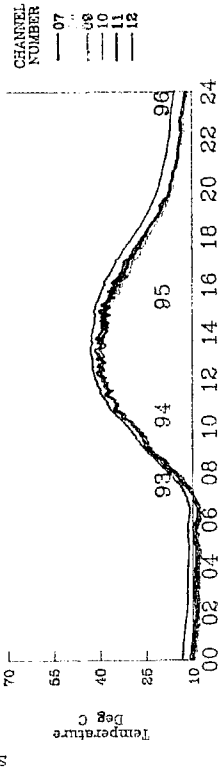
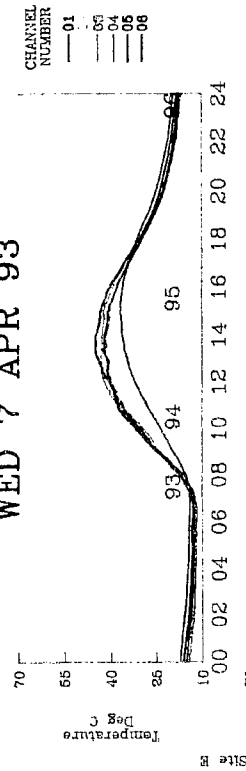
# Thermal Data

TUE 6 APR 93



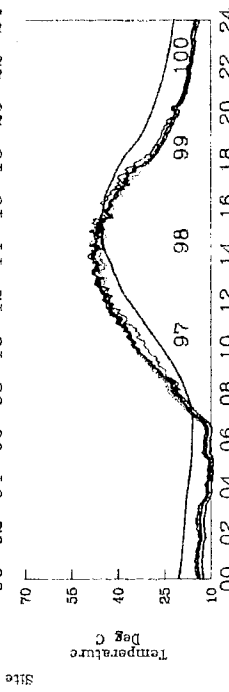
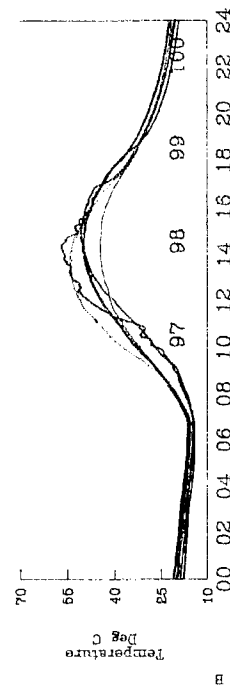
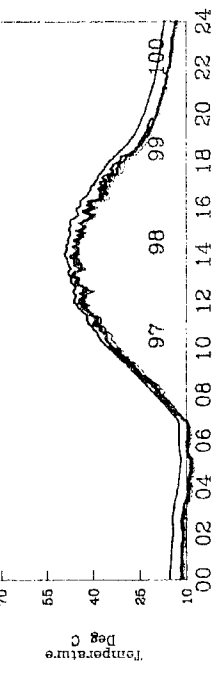
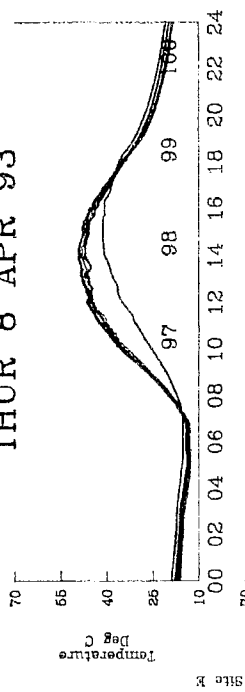
# Thermal Data

WED 7 APR 93



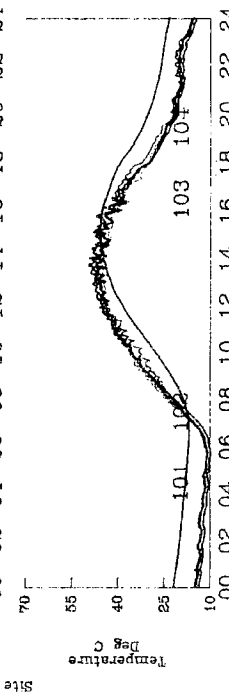
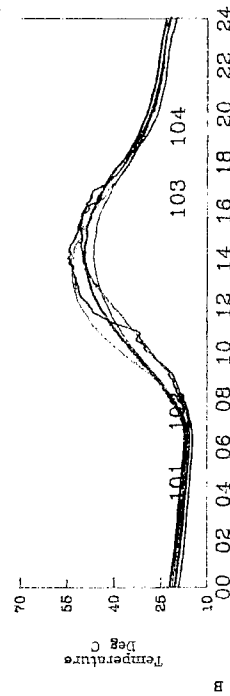
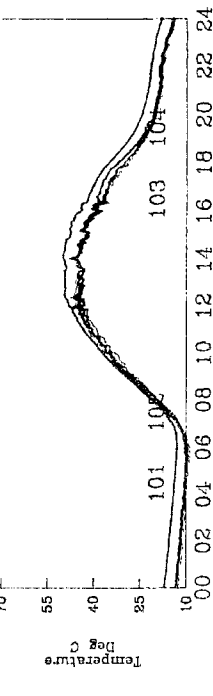
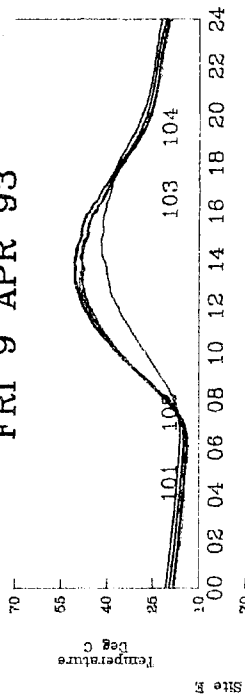
# Thermal Data

THUR 8 APR 93



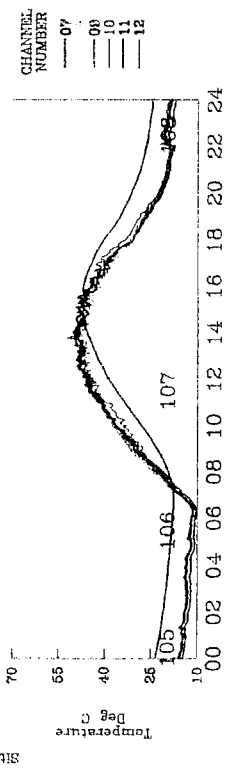
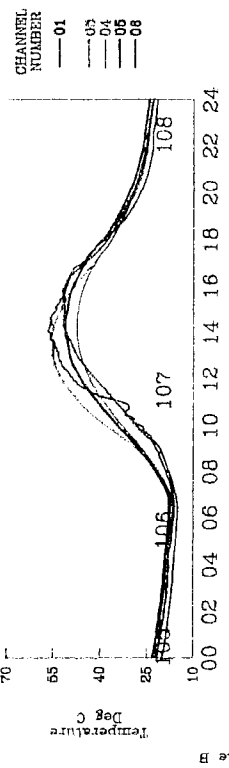
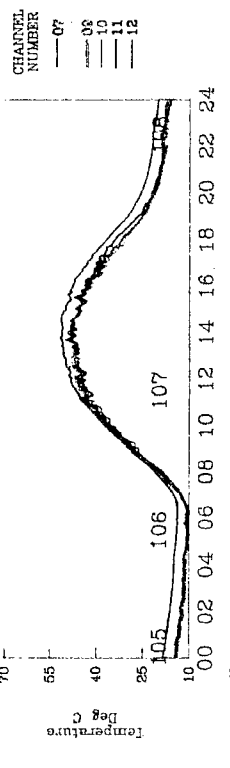
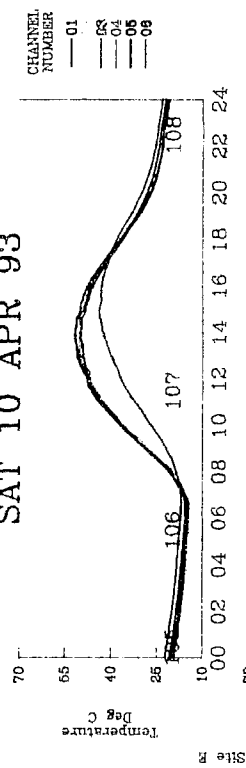
# Thermal Data

FRI 9 APR 93

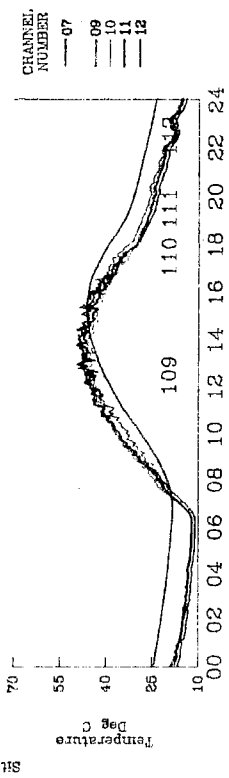
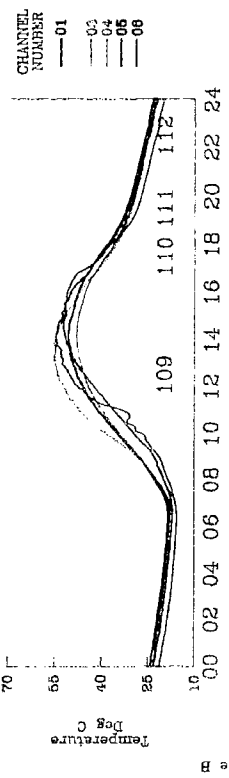
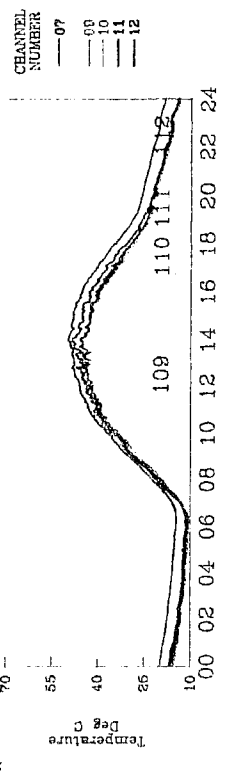
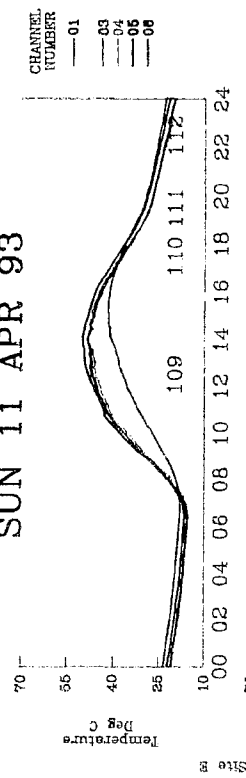




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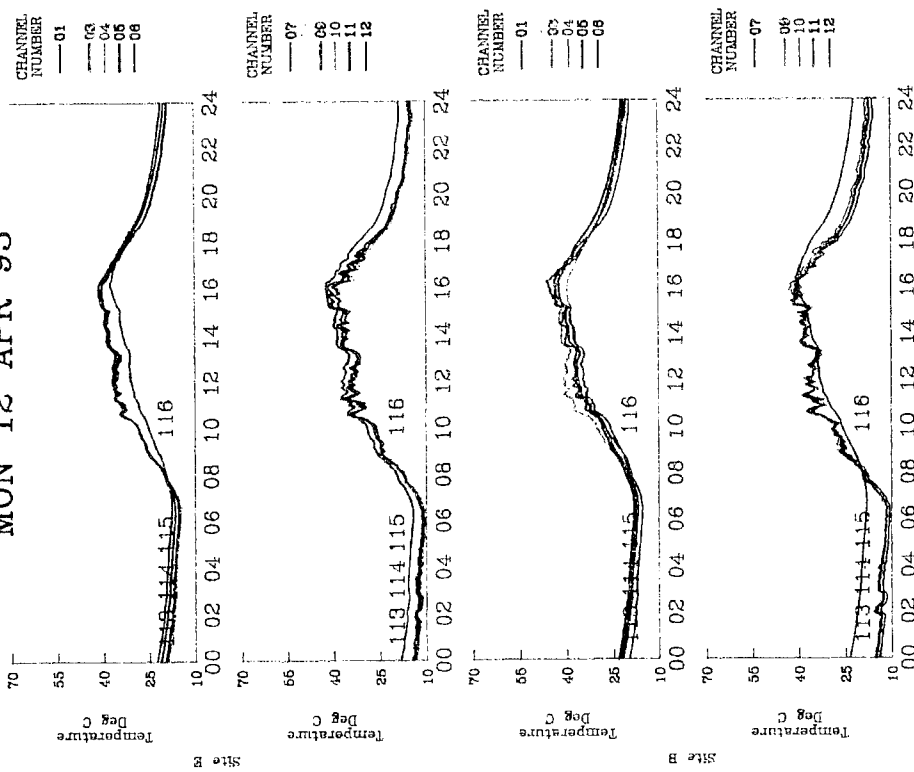


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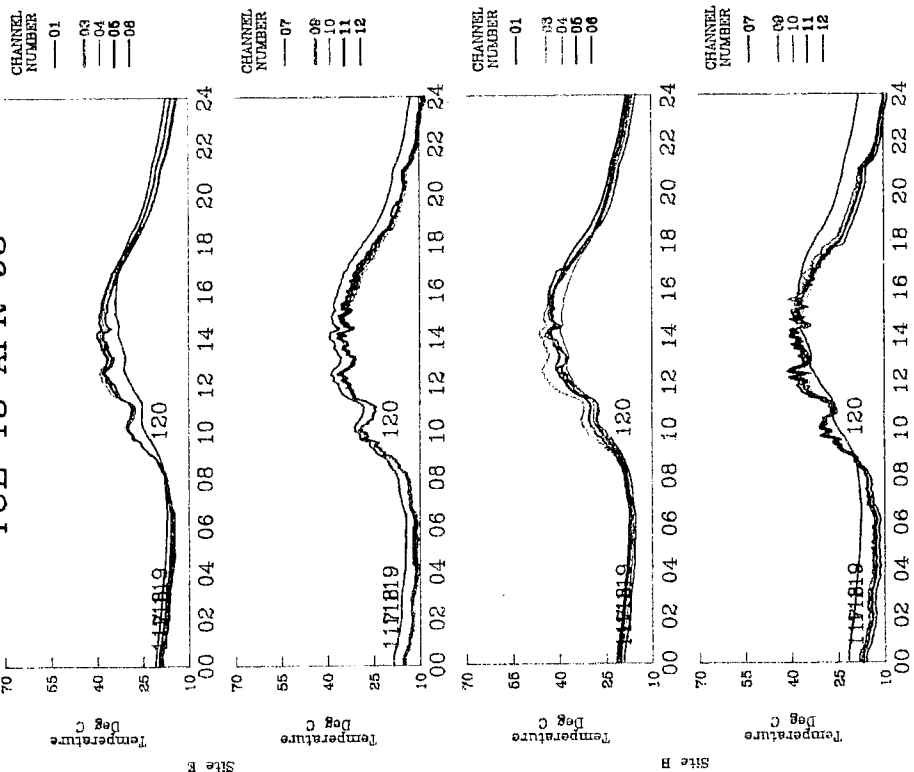
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## MON 12 APR 93



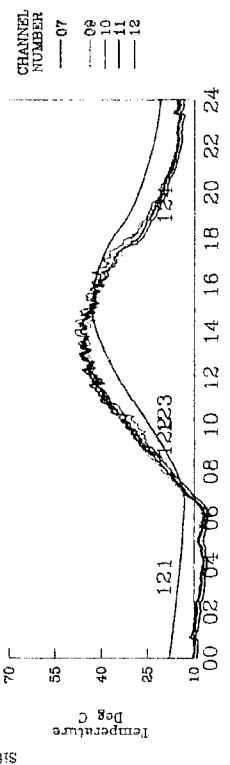
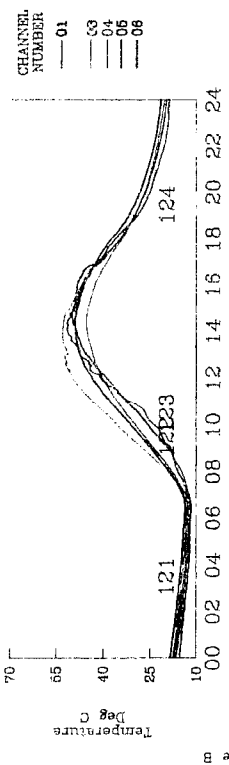
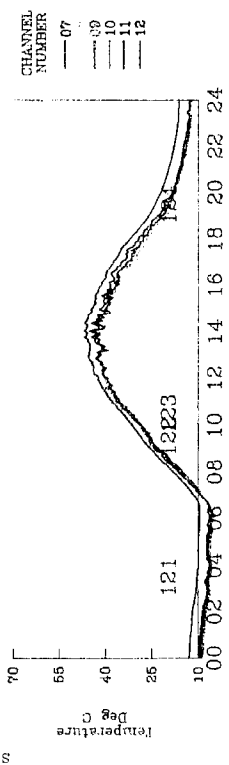
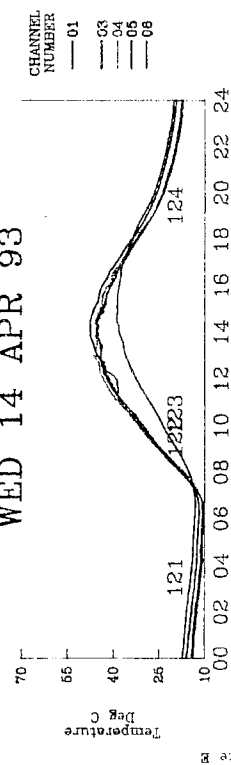
# Thermal Data

## TUE 13 APR 93



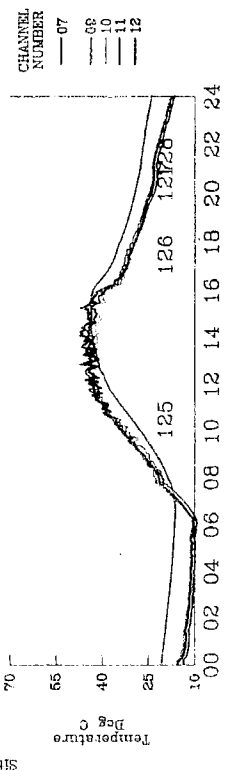
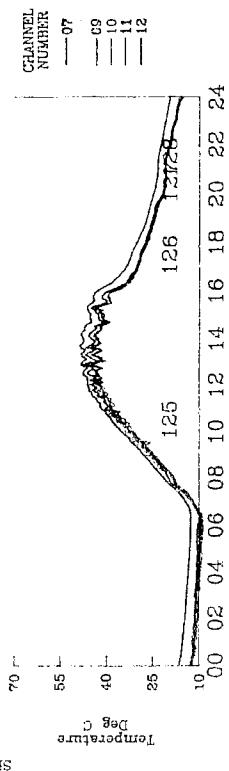
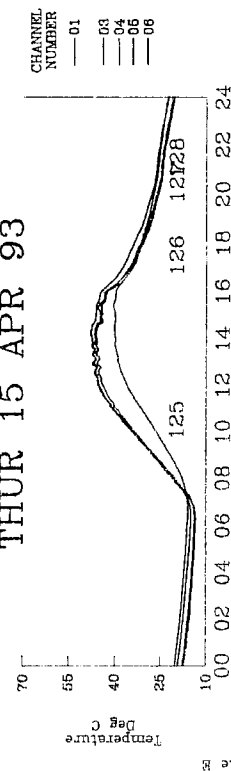
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WED 14 APR 93



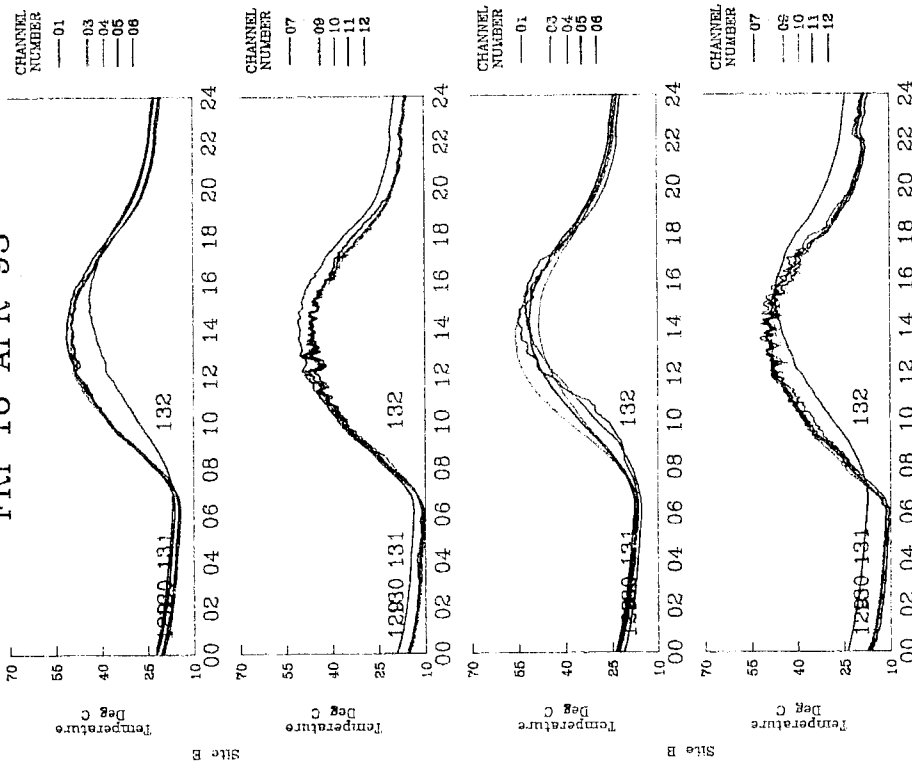
# Thermal Data

THUR 15 APR 93



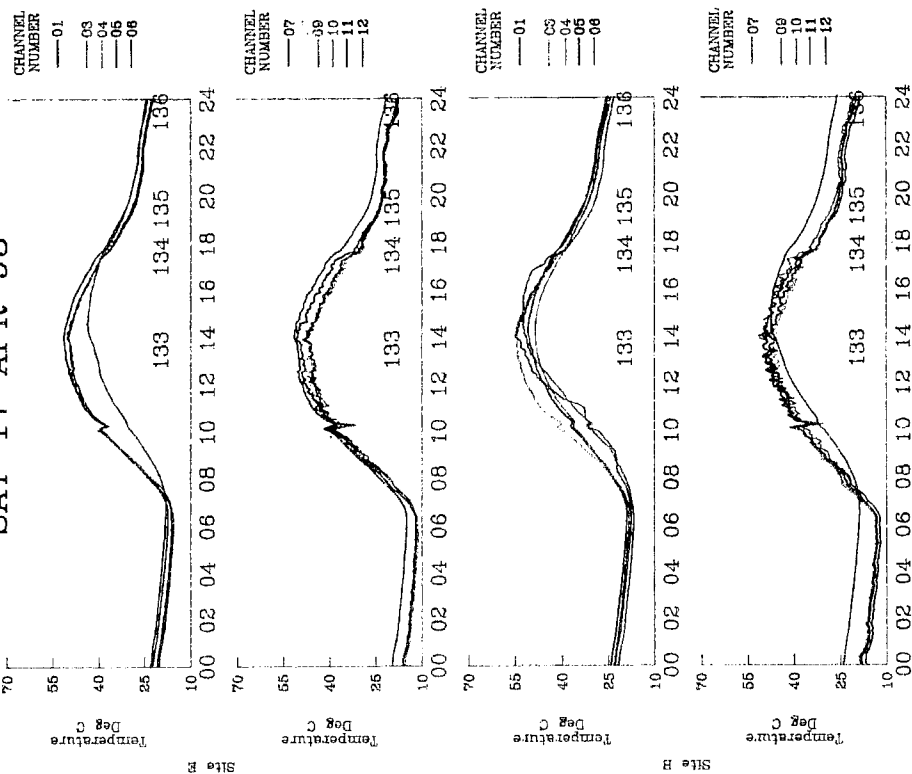
# Thermal Data

FRI 16 APR 93



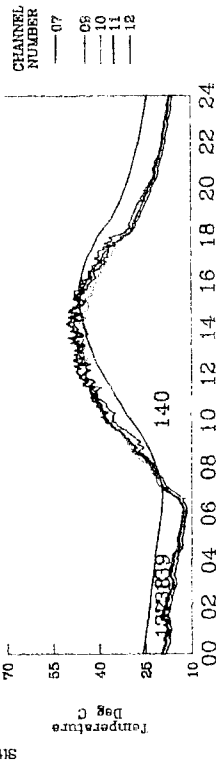
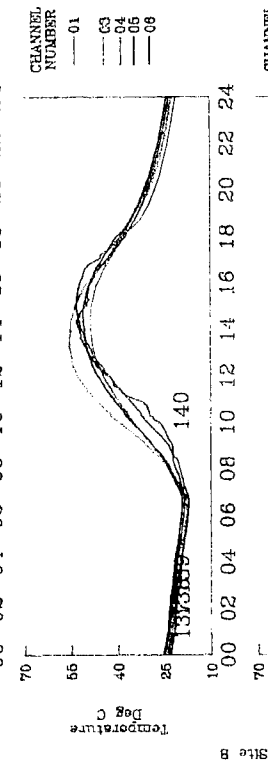
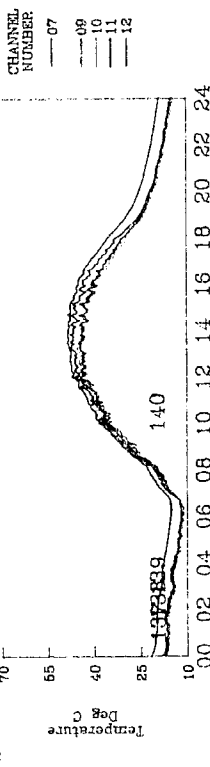
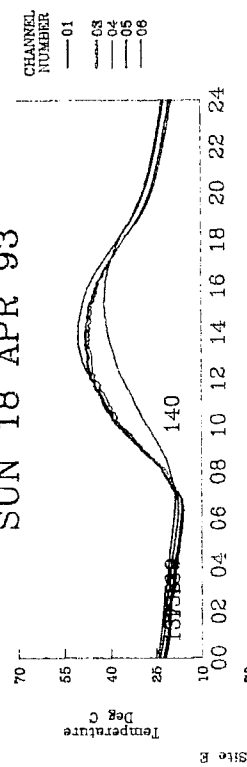
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SAT 17 APR 93



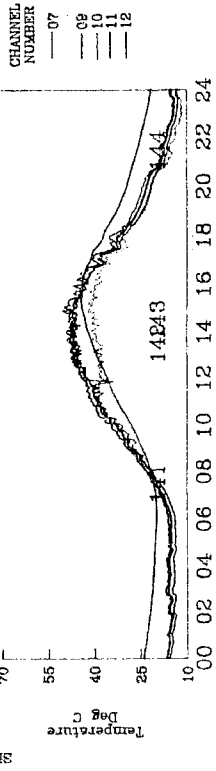
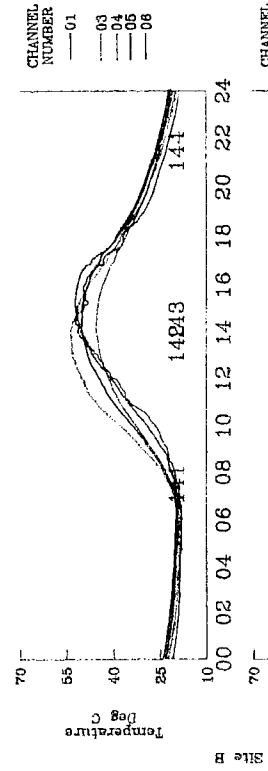
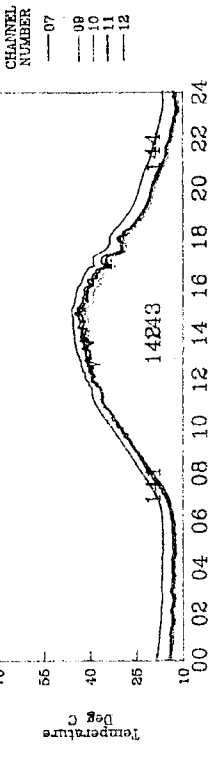
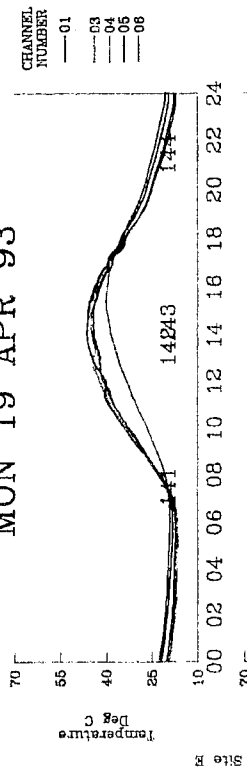
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SUN 18 APR 93



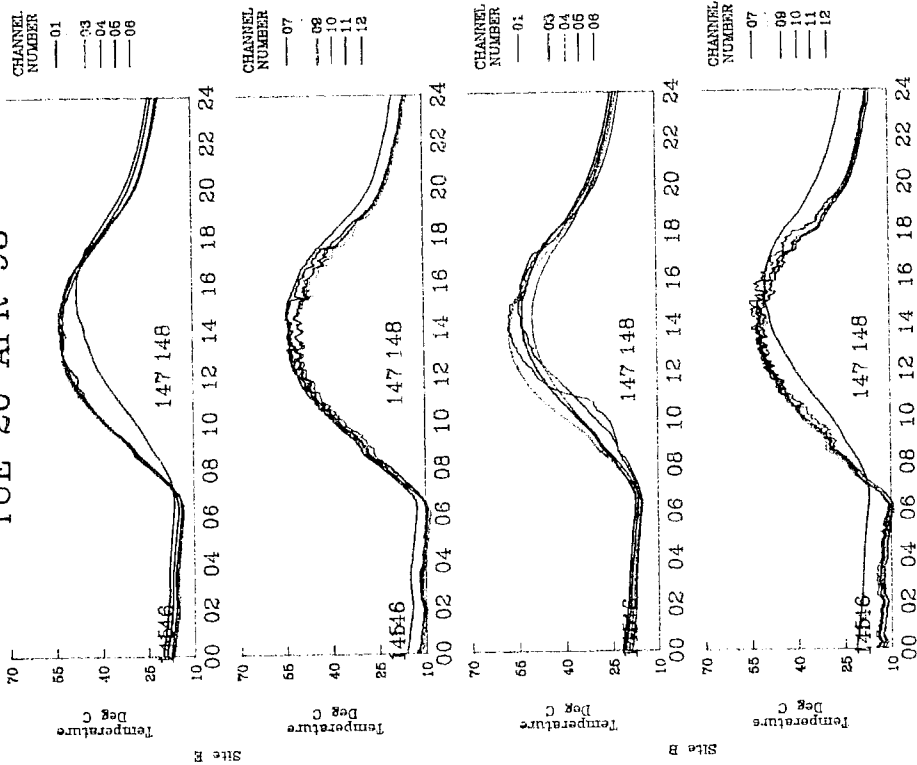
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MON 19 APR 93



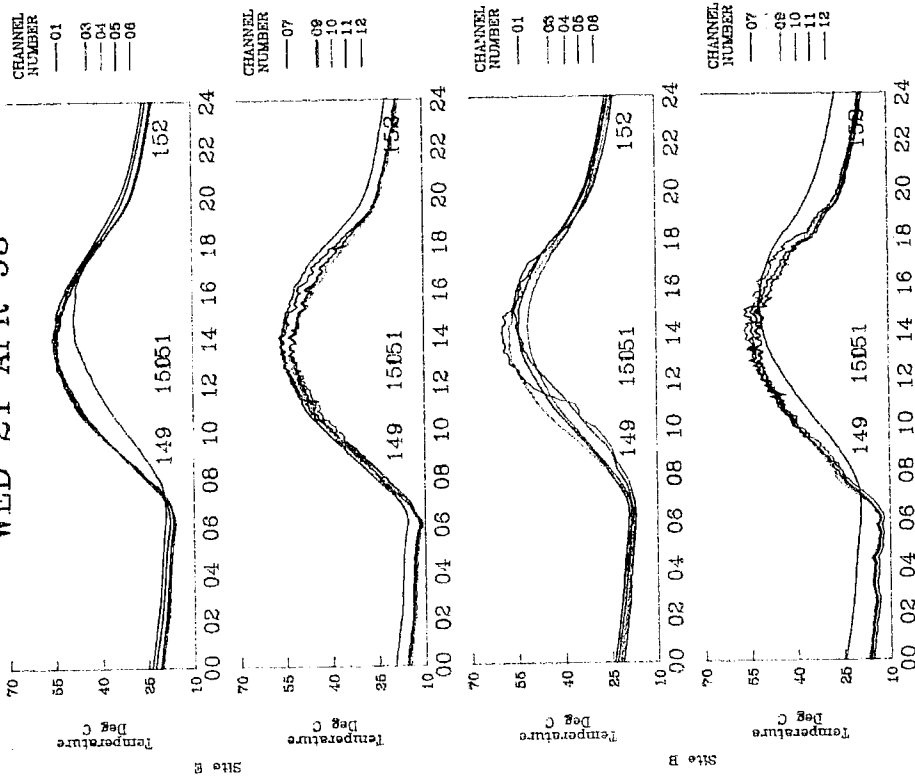
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TUE 20 APR 93



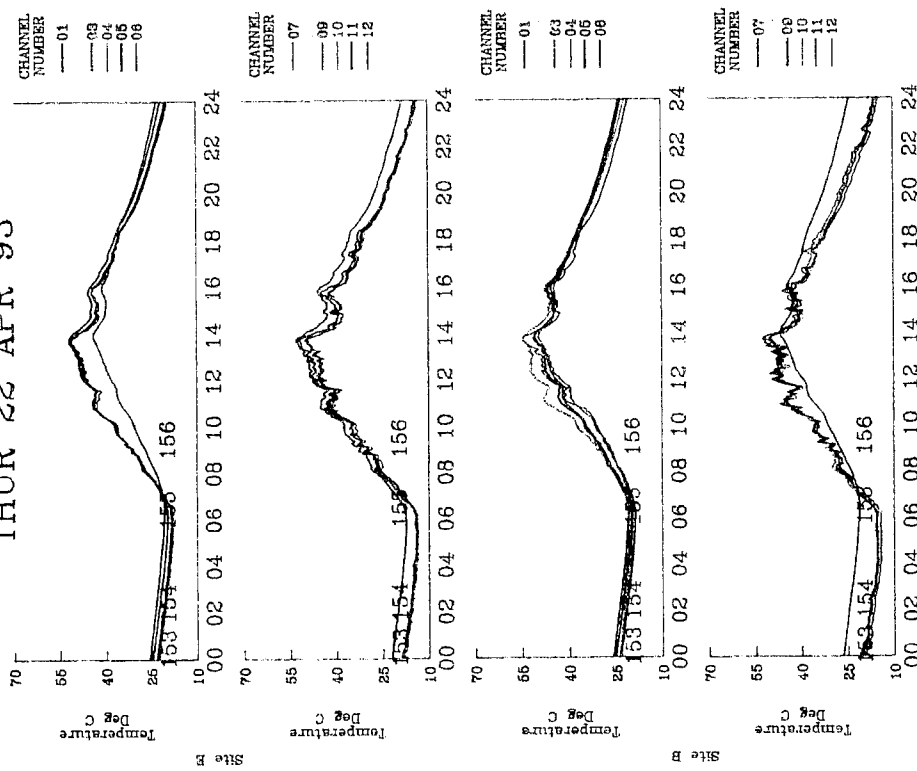
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WED 21 APR 93



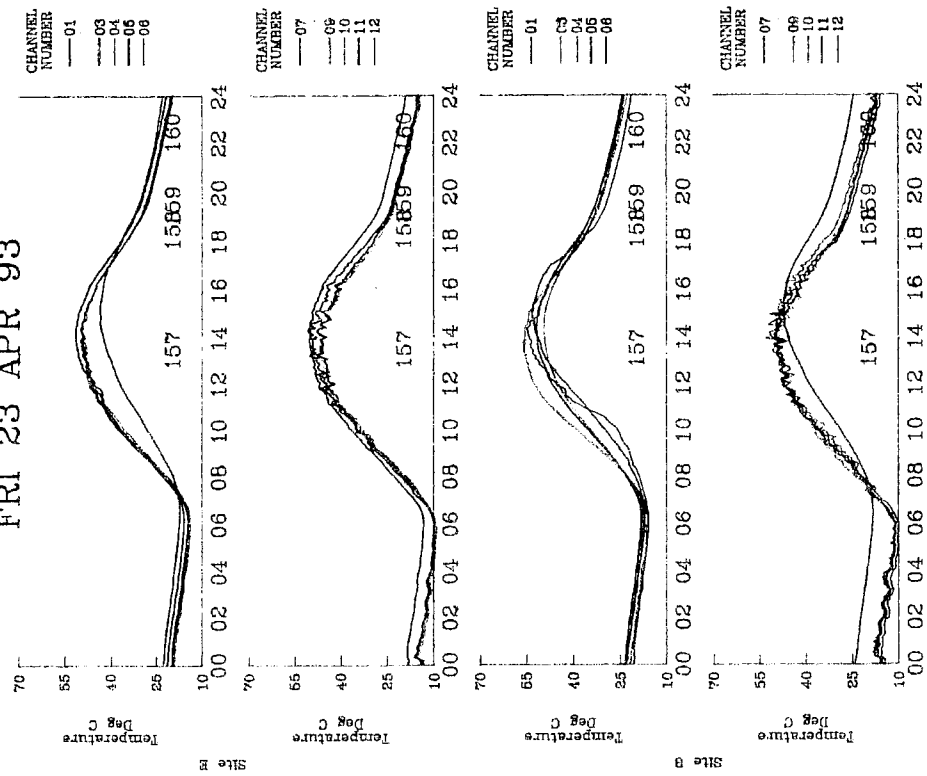
# Thermal Data

THUR 22 APR 93



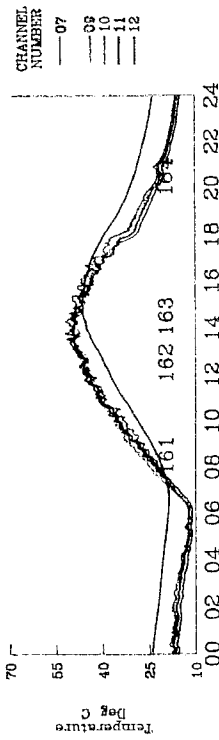
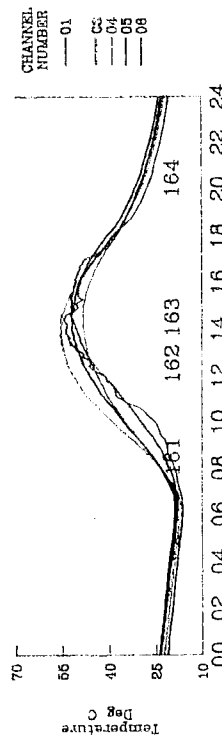
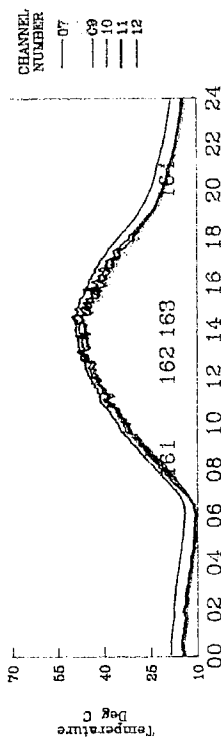
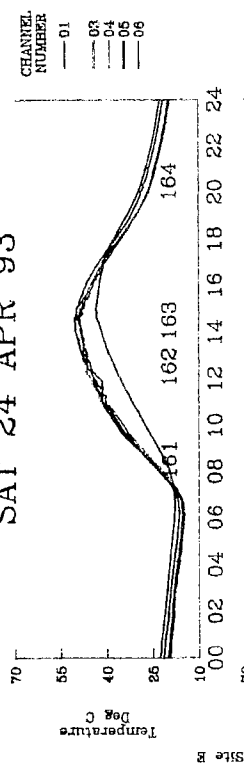
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FRI 23 APR 93



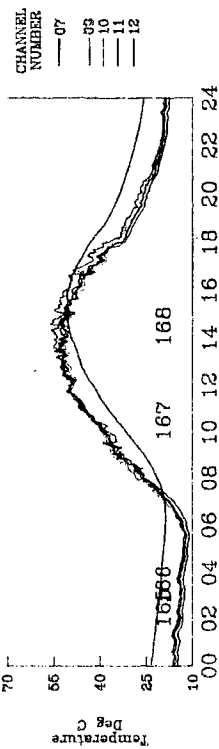
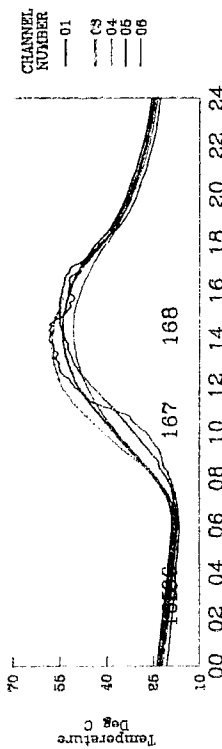
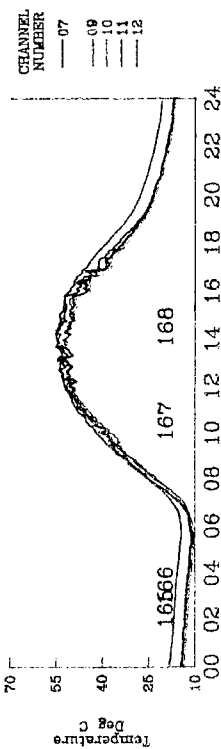
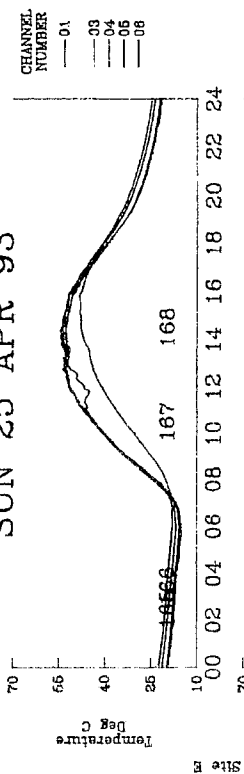
# Thermal Data

SAT 24 APR 93



# Thermal Data

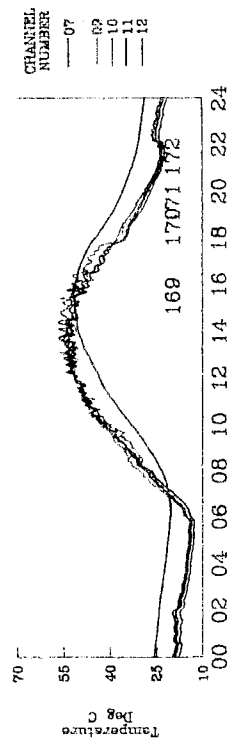
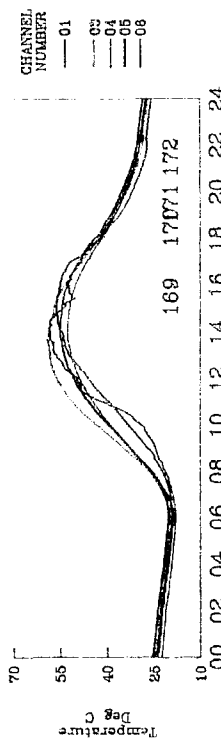
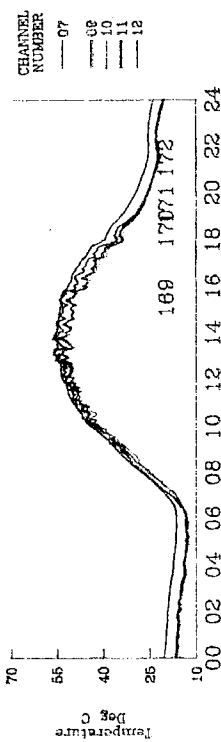
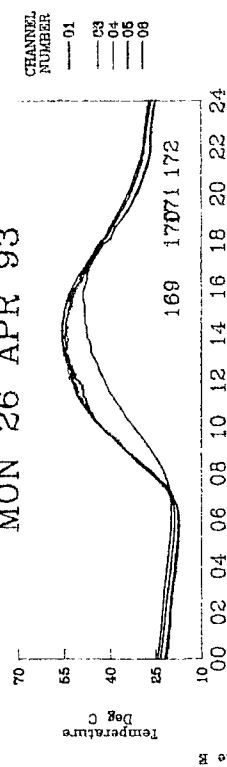
SUN 25 APR 93





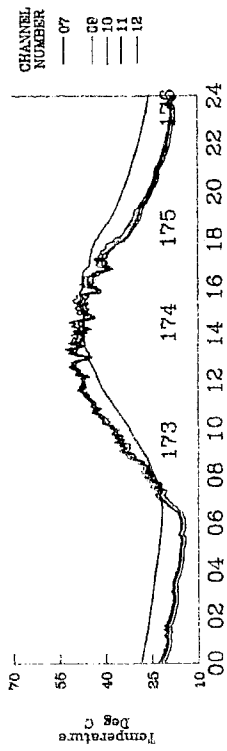
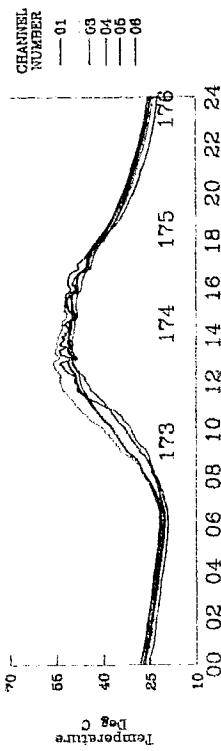
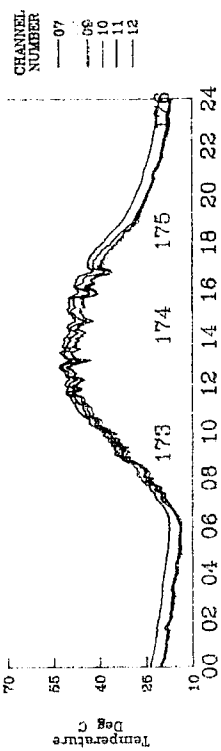
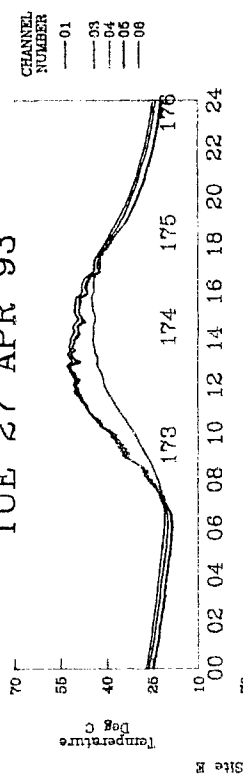
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MON 26 APR 93



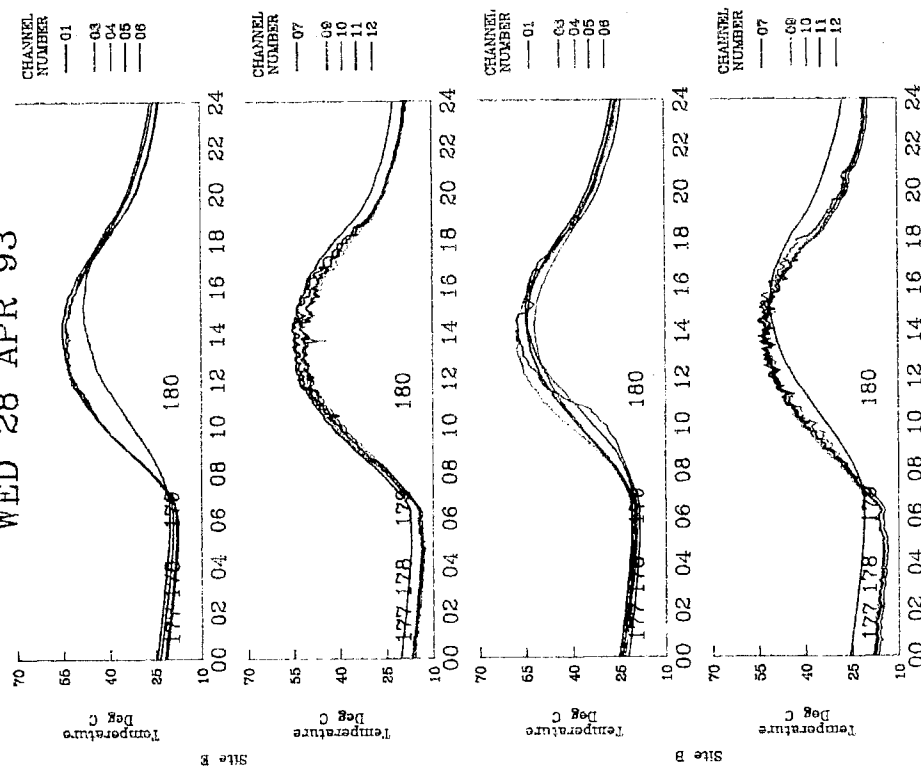
# Thermal Data

TUE 27 APR 93



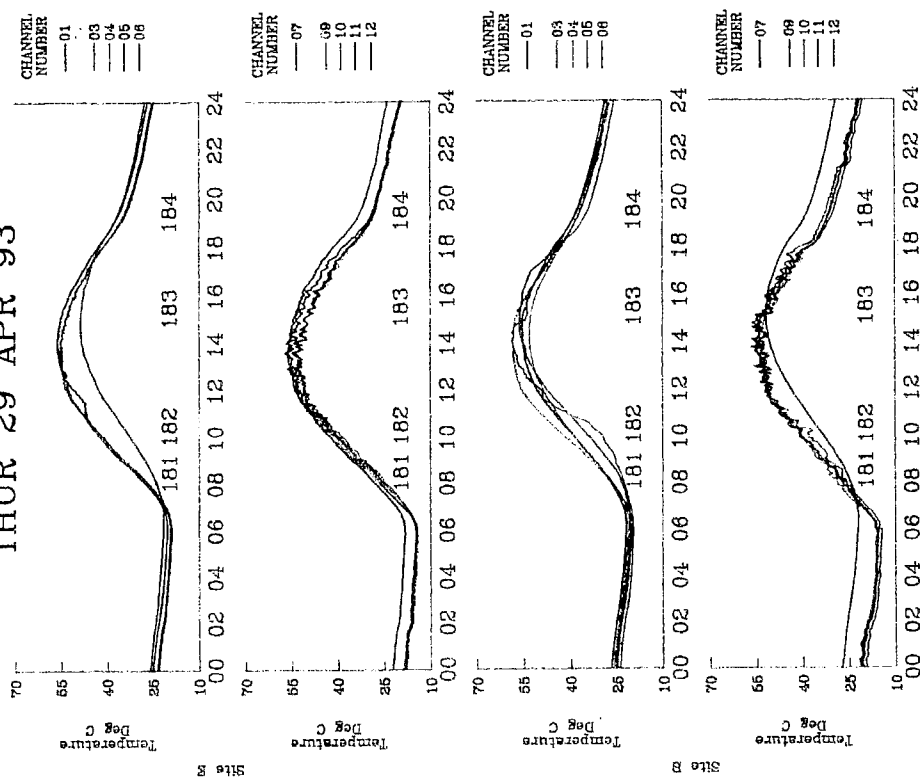
# Thermal Data

WED 28 APR 93



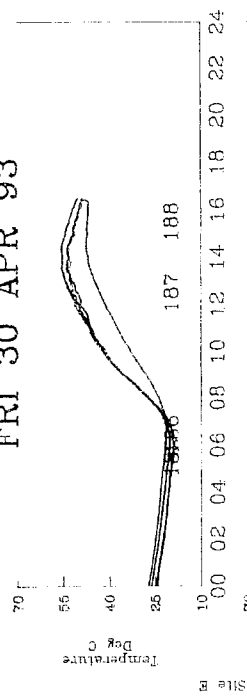
# Thermal Data

THUR 29 APR 93

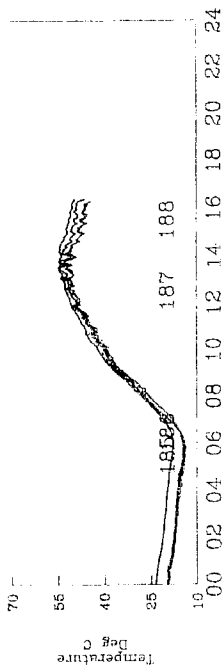


# Thermal Data FRI 30 APR 93

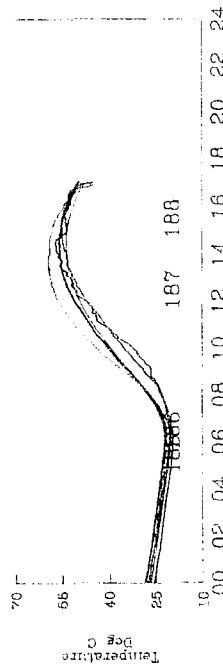
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NUMBER  
— 01  
— 03  
— 04  
— 06



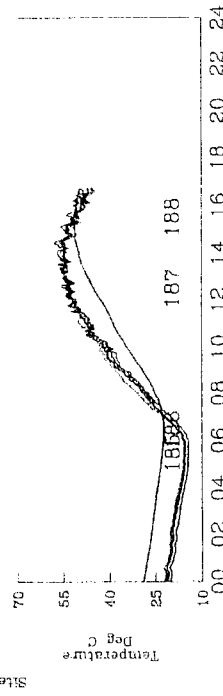
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NUMBER  
— 07  
— 08  
— 10  
— 11  
— 12



CHANNEL  
NUMBER  
— 01  
— 03  
— 04  
— 06



CHANNEL  
NUMBER  
— 07  
— 08  
— 10  
— 11  
— 12



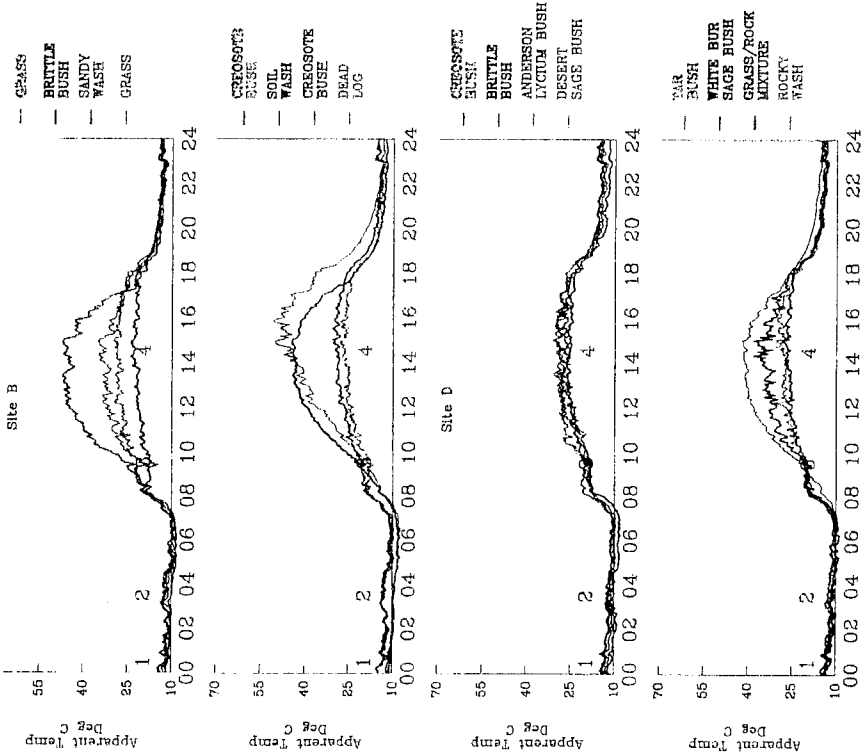
# **Appendix E**

## **Daily Feature Array Thermal Data Plots**

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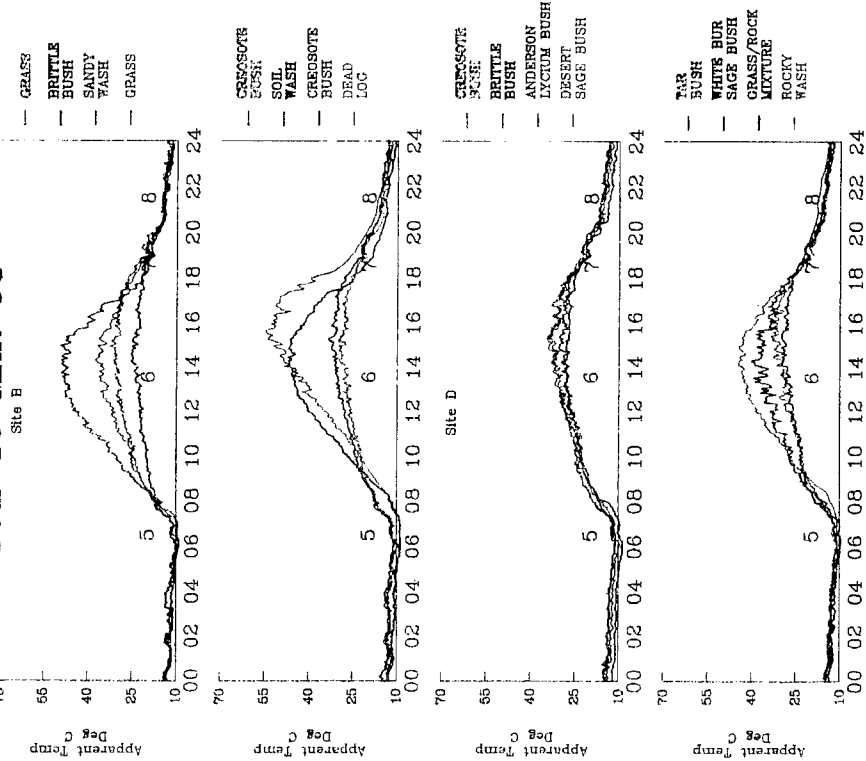
# Apparent Temperature

MON 15 MAR 93



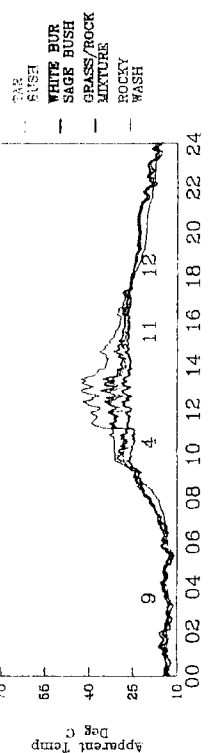
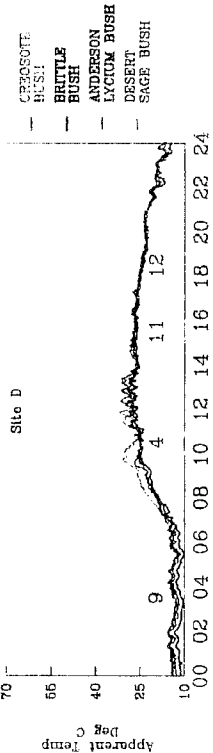
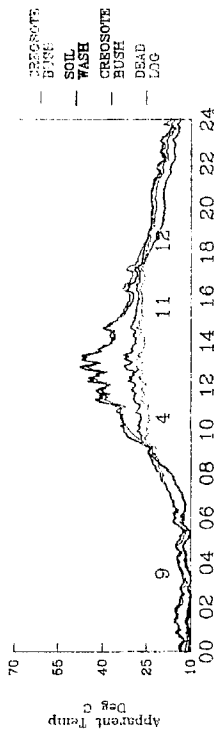
# Apparent Temperature

TUE 16 MAR 93



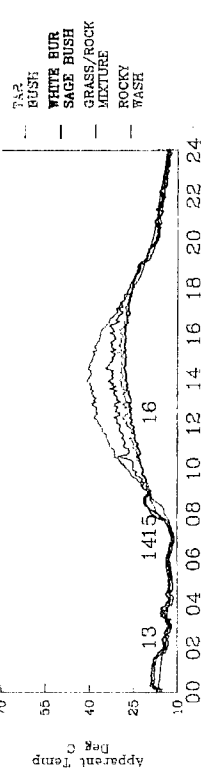
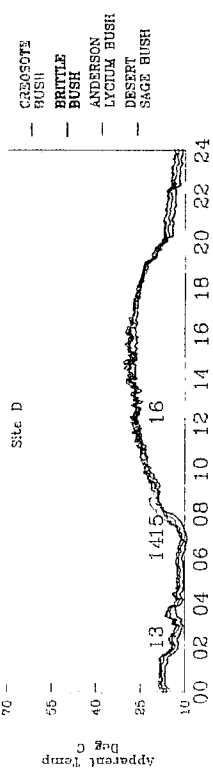
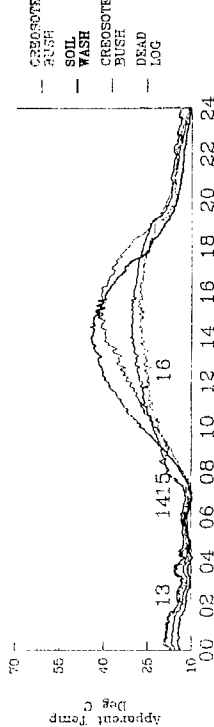
# Apparent Temperature

WED 17 MAR 93



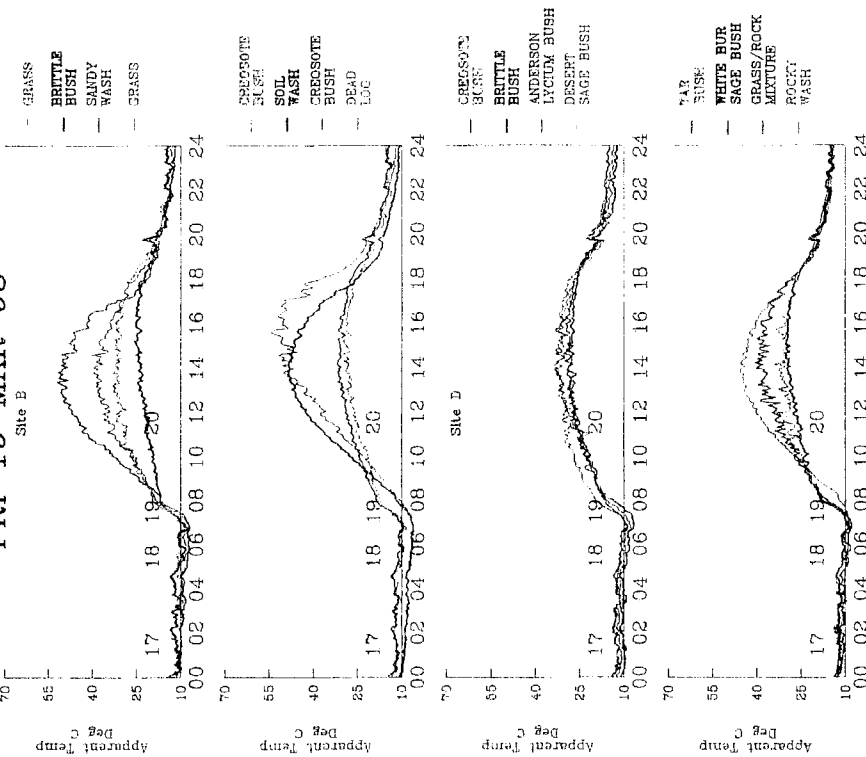
# Apparent Temperature

THUR 18 MAR 93



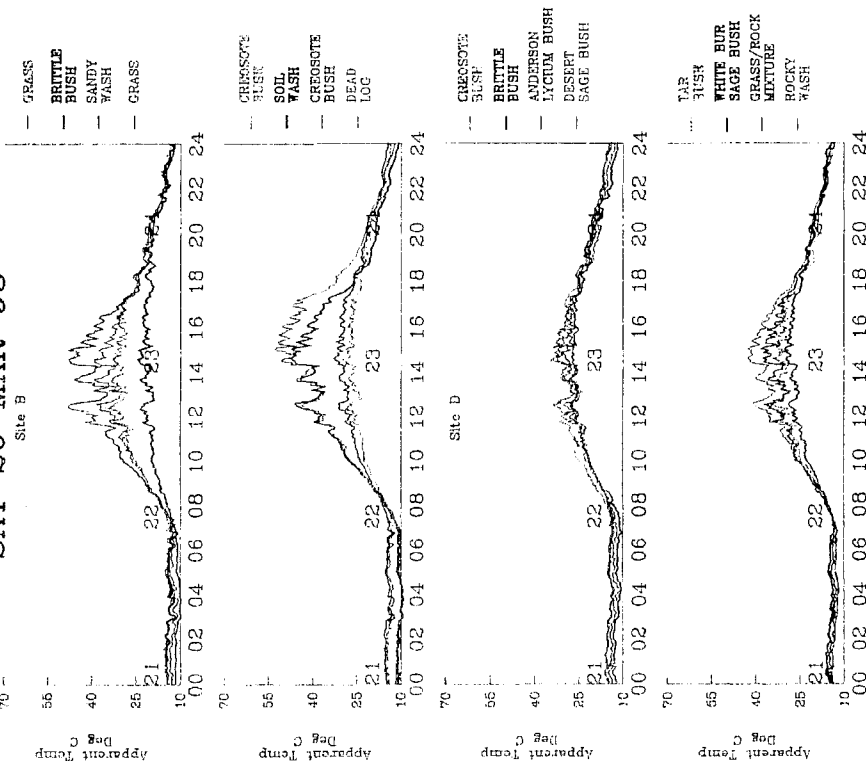
# Apparent Temperature

## FRI 19 MAR 93



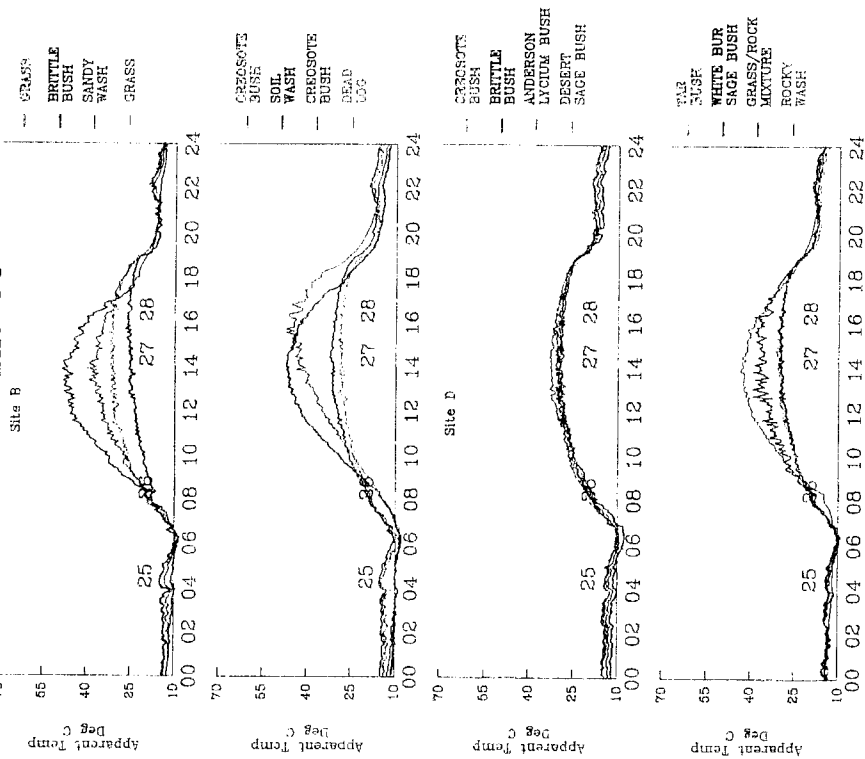
# Apparent Temperature

## SAT 20 MAR 93



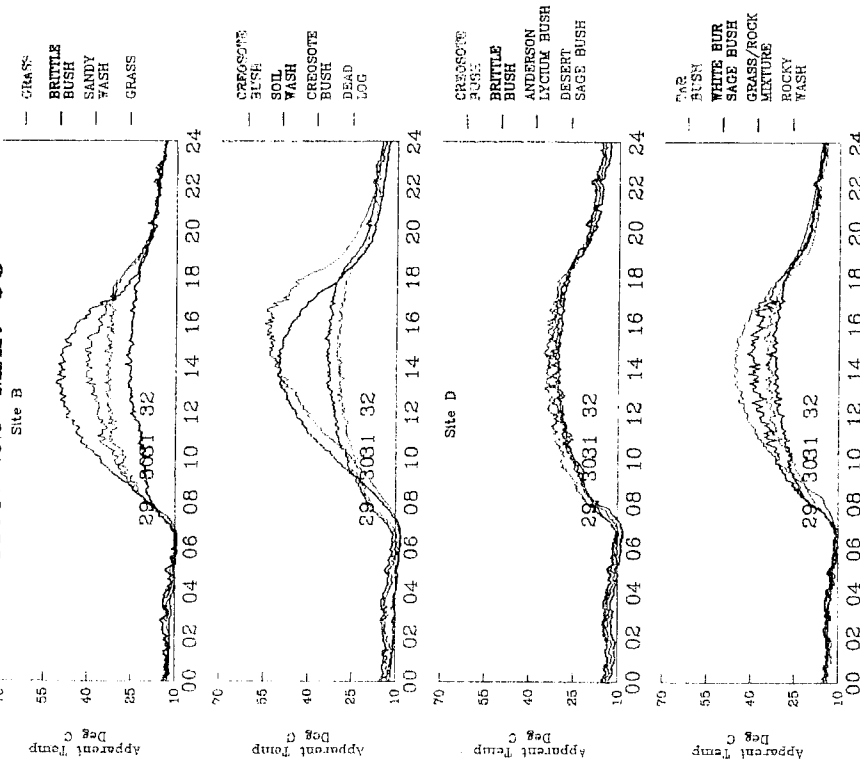
# Apparent Temperature

SUN 21 MAR 93



# Apparent Temperature

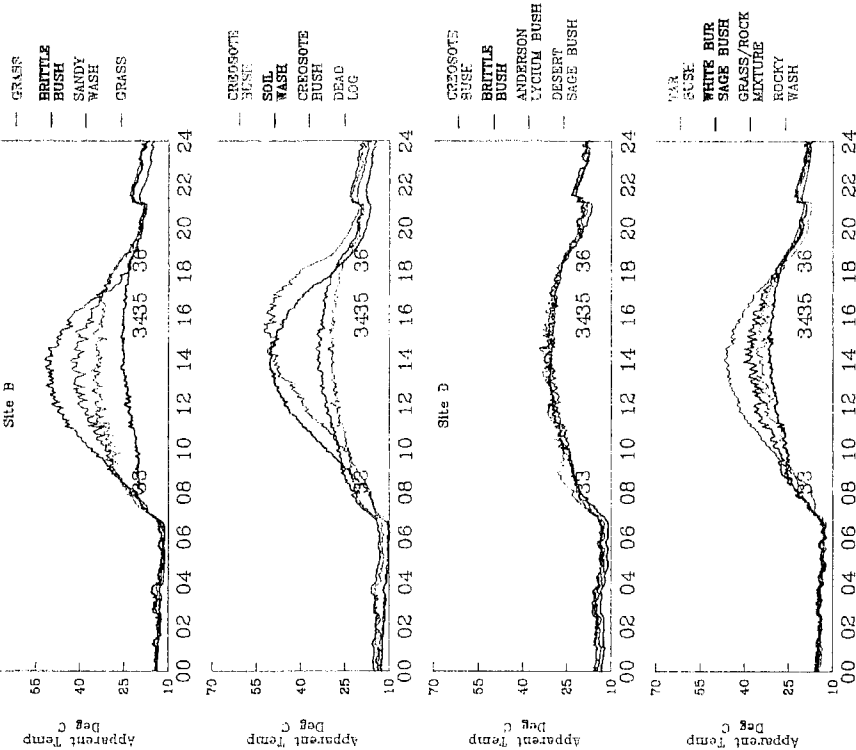
MON 22 MAR 93





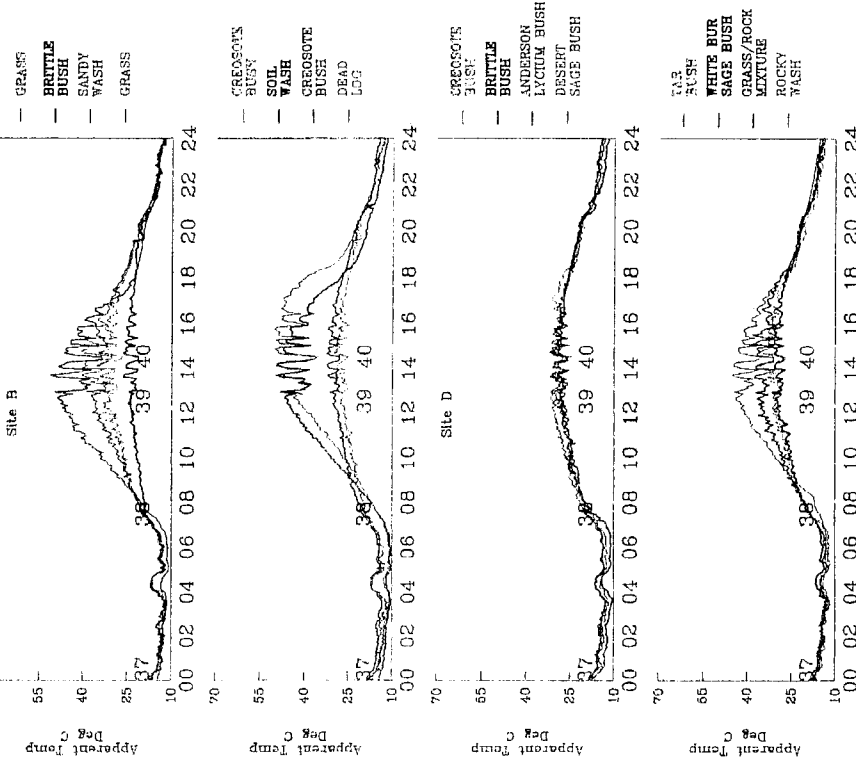
# Apparent Temperature

TUE 23 MAR 93

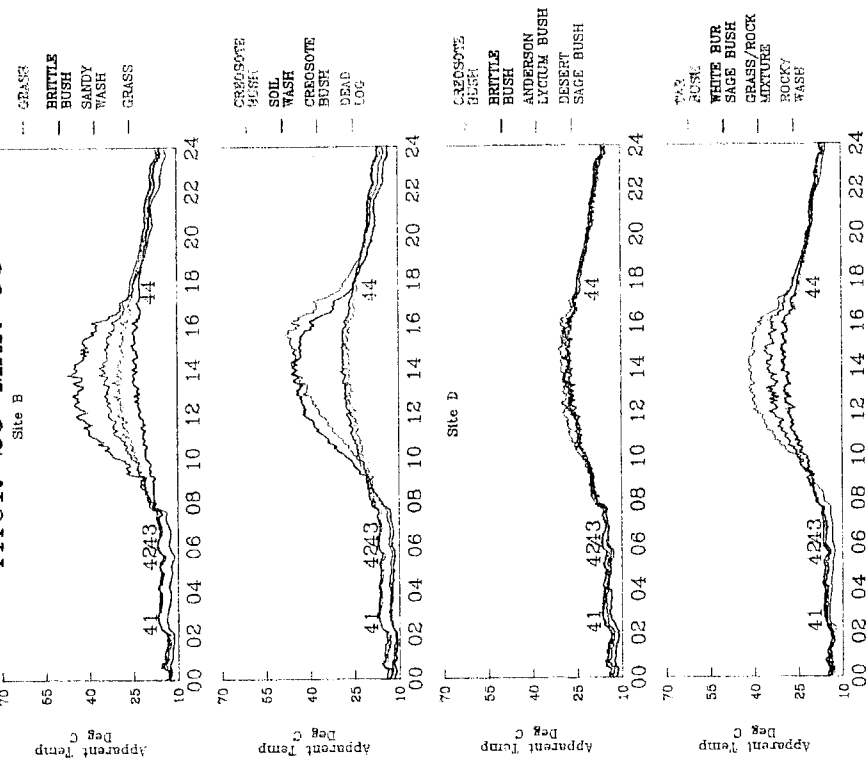


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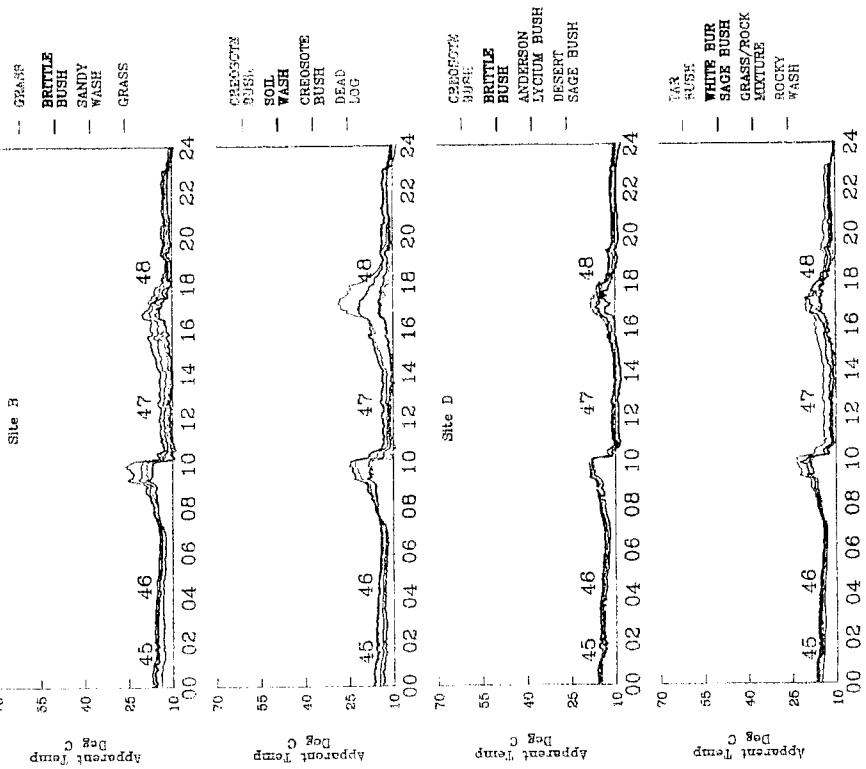
WED 24 MAR 93



# Apparent Temperature THUR 25 MAR 93

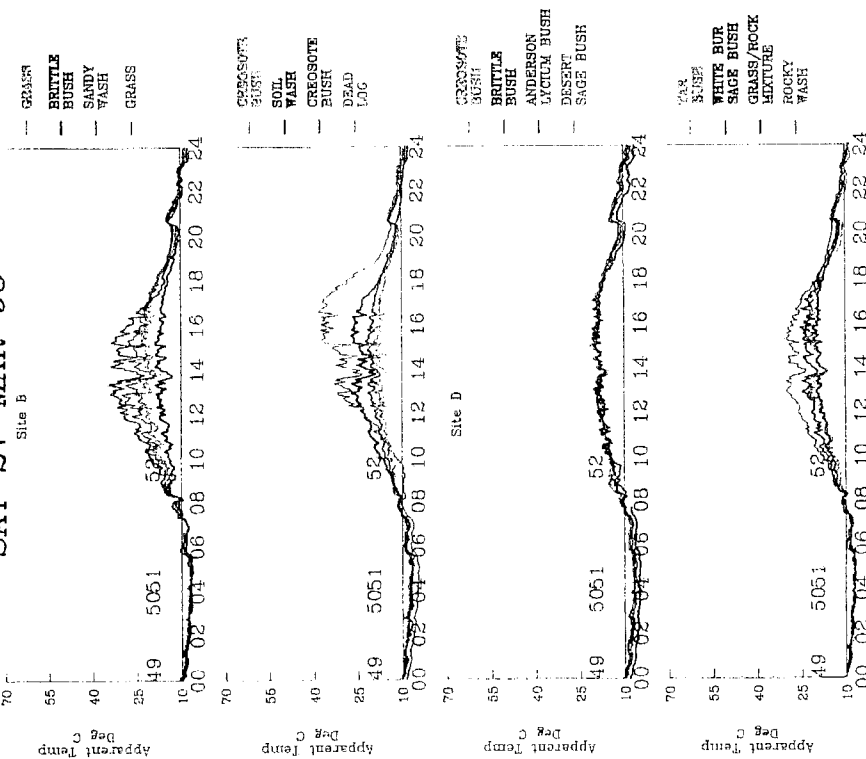


# Apparent Temperature FRI 26 MAR 93



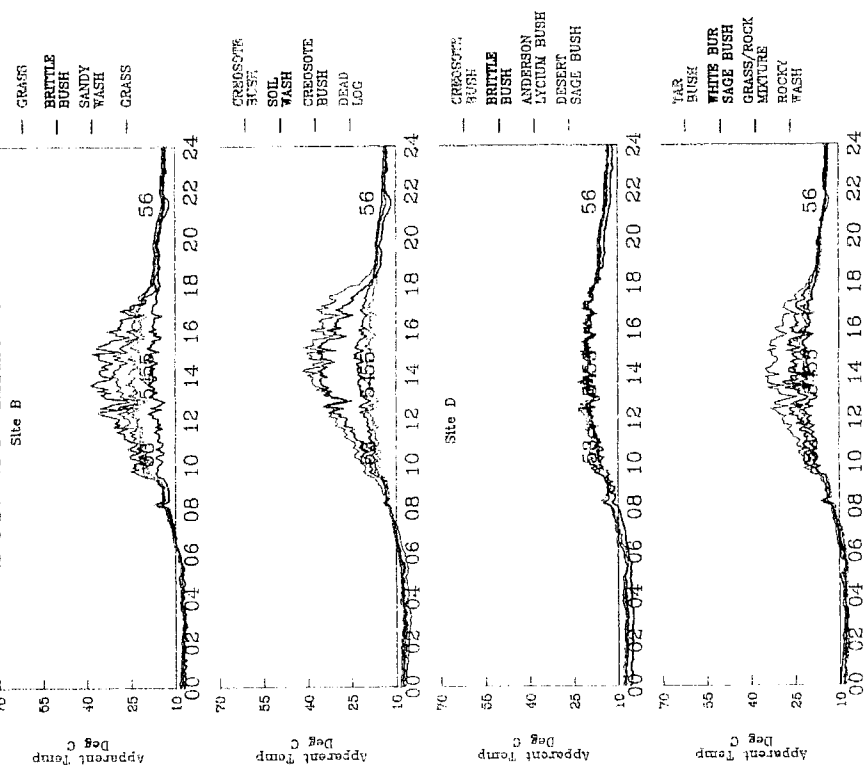
# Apparent Temperature

SAT 27 MAR 93



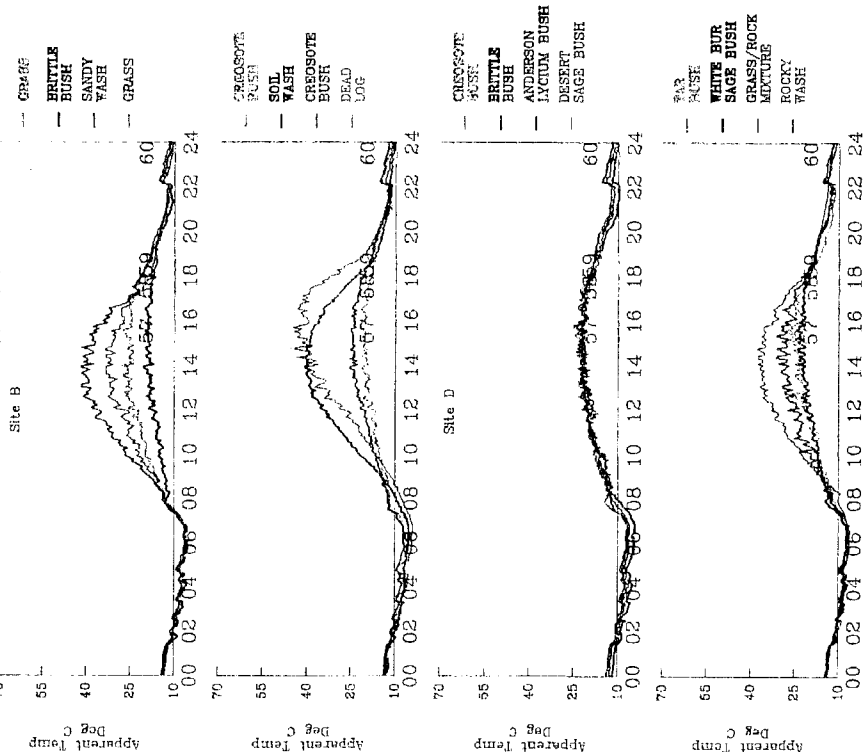
# Apparent Temperature

SUN 28 MAR 93



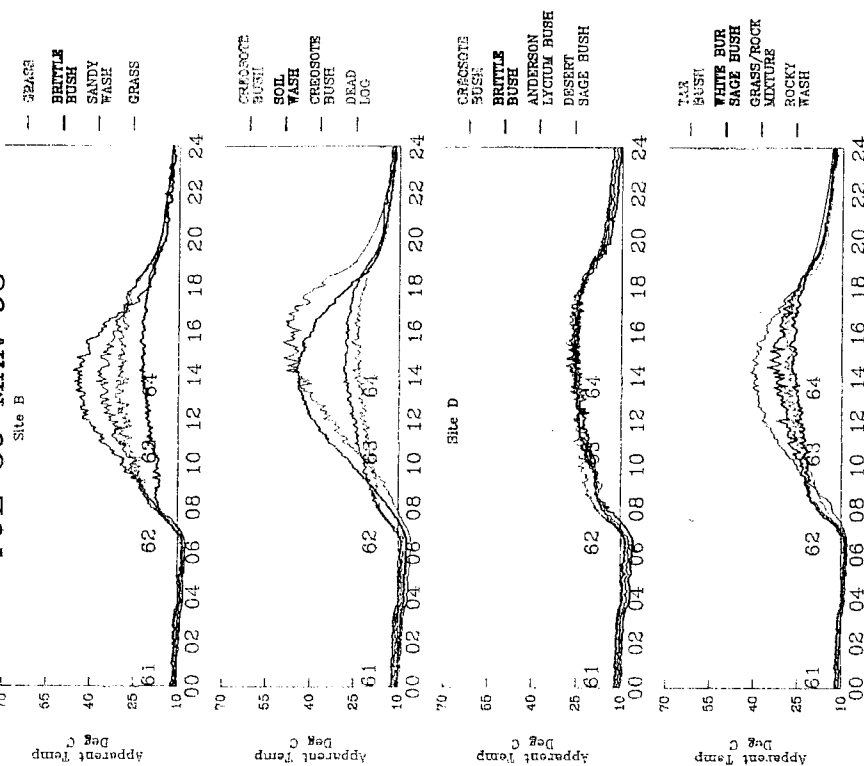
# Apparent Temperature

MON 29 MAR 93



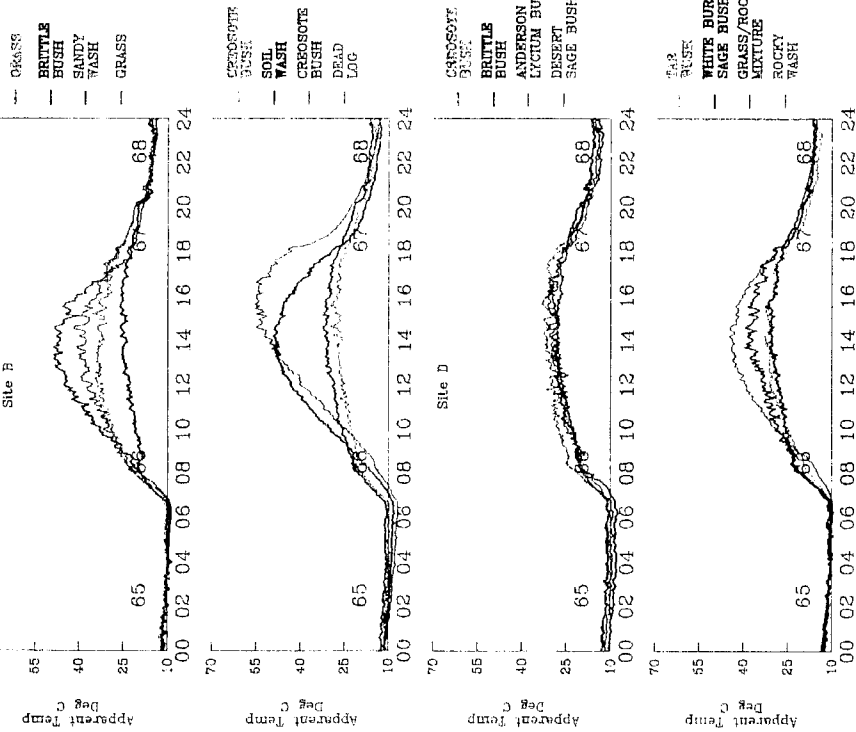
# Apparent Temperature

TUE 30 MAR 93



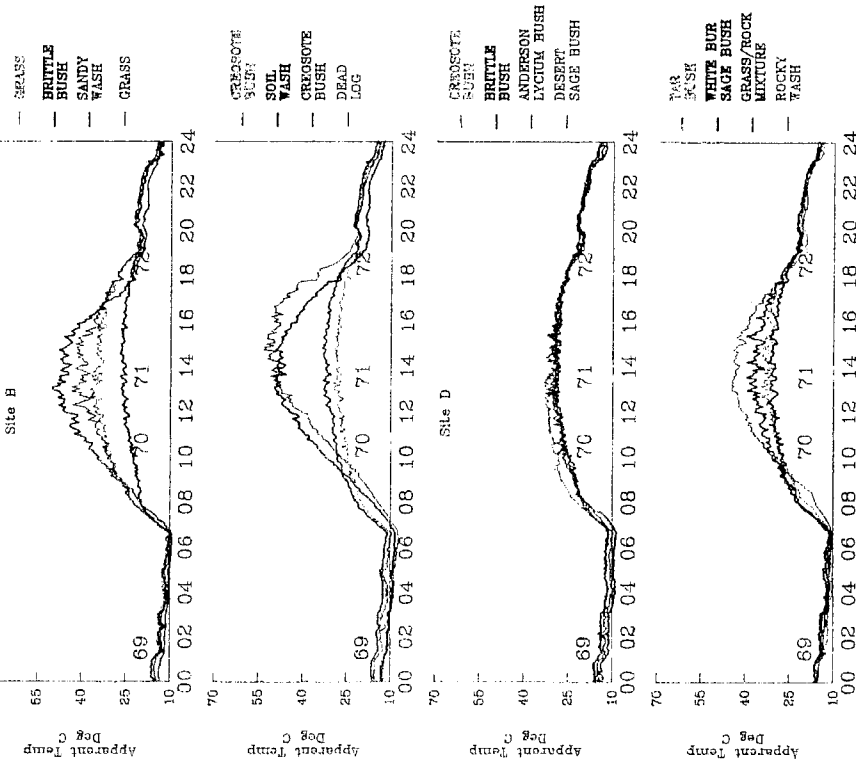
# Apparent Temperature

WED 31 MAR 93



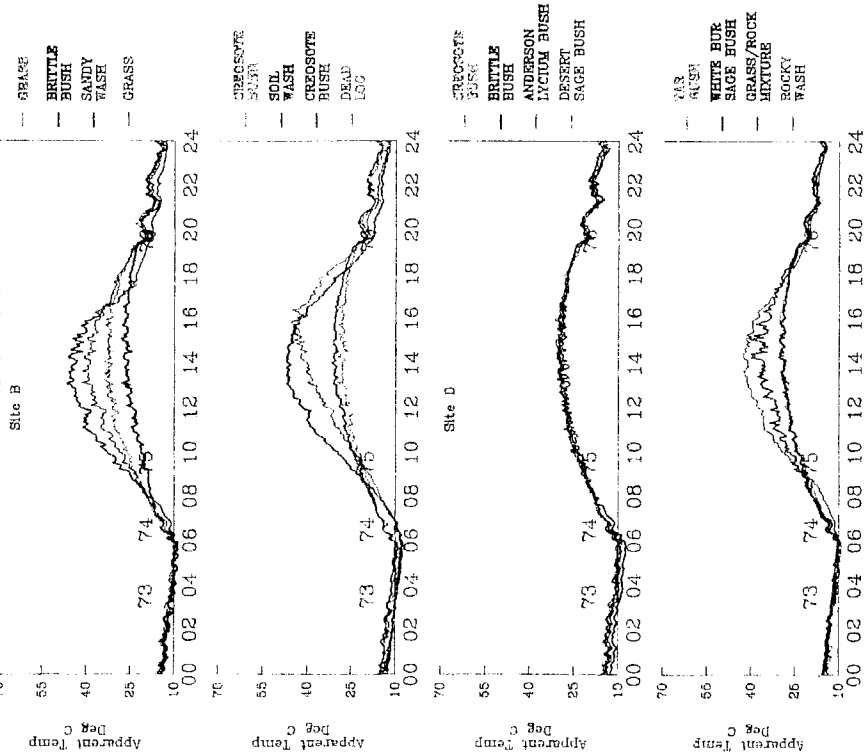
# Apparent Temperature

THUR 1 APR 93



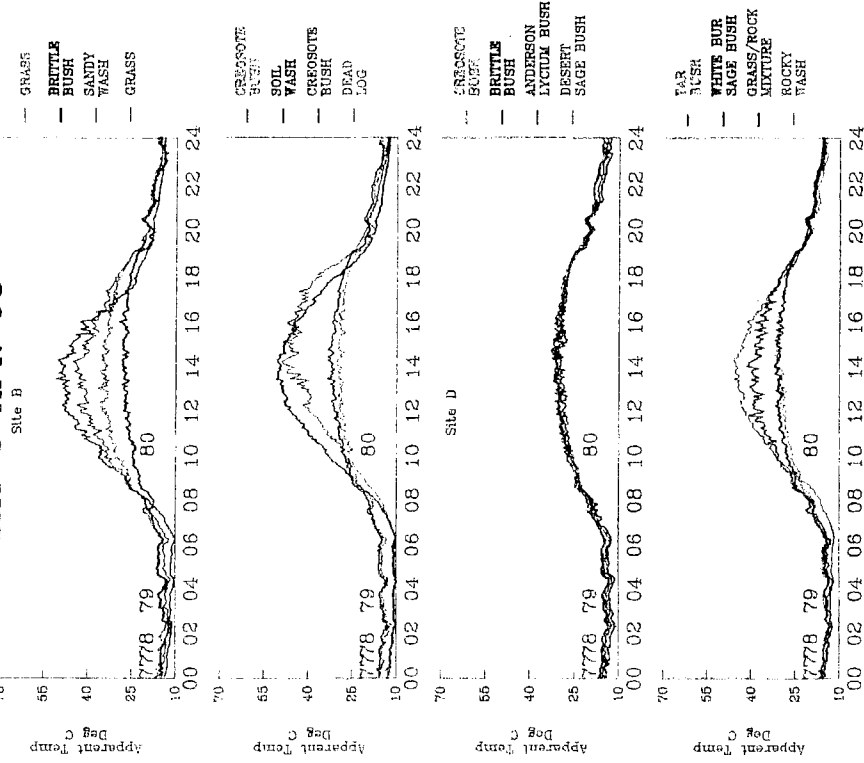
# Apparent Temperature

FRI 2 APR 93



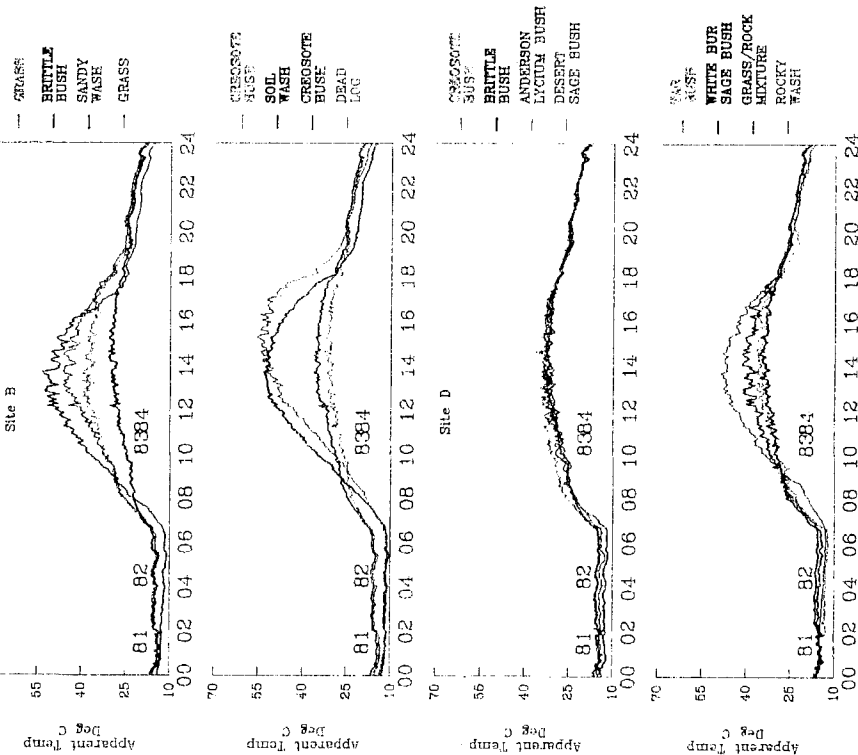
# Apparent Temperature

SAT 3 APR 93



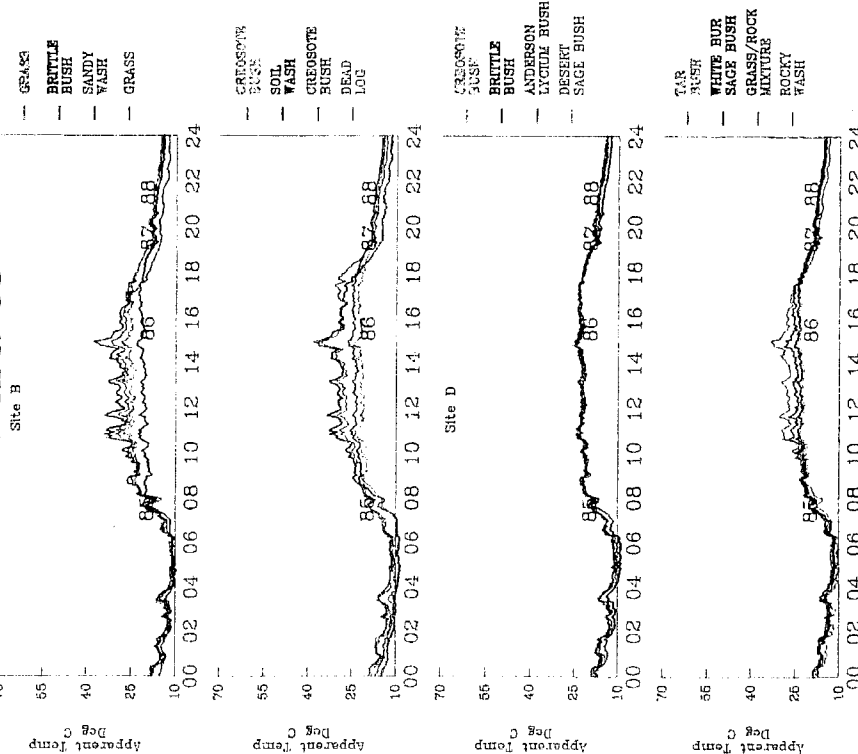
# Apparent Temperature

SUN 4 APR 93



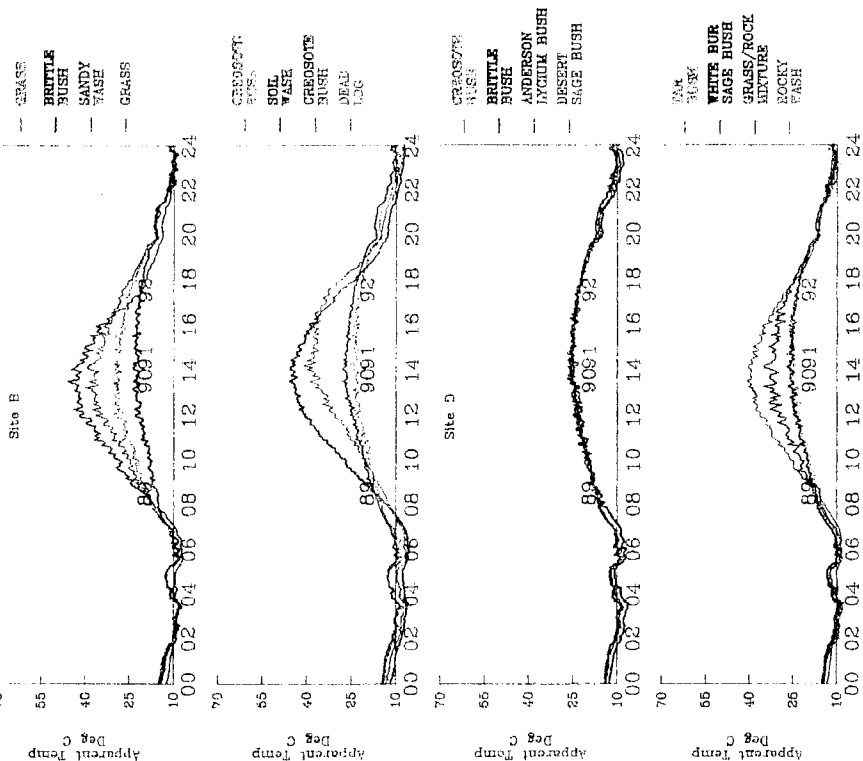
# Apparent Temperature

MON 5 APR 93



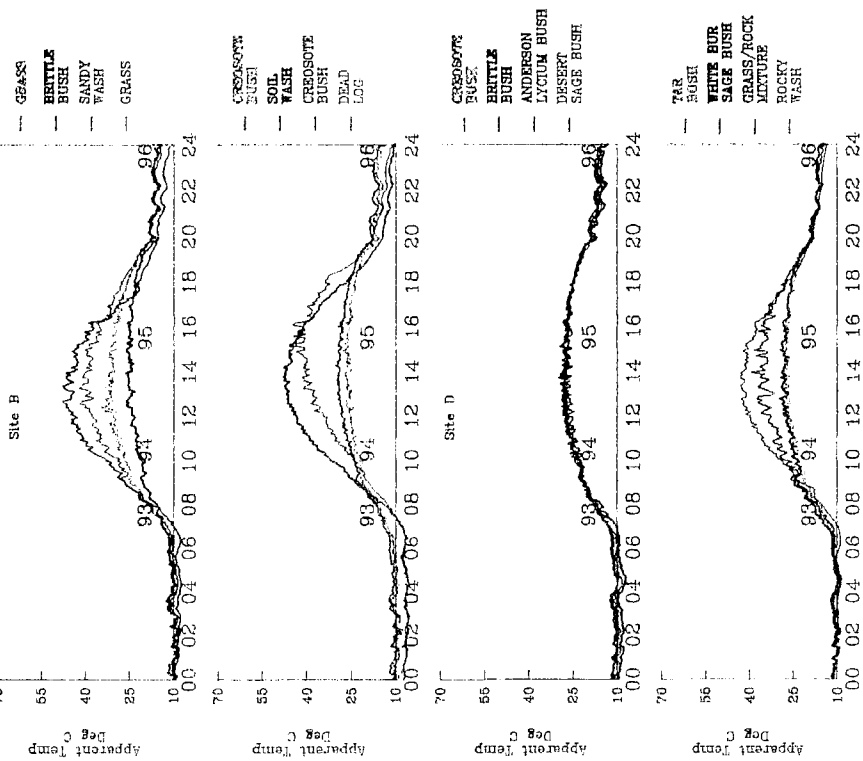
# Apparent Temperature

TUE 6 APR 93



# Apparent Temperature

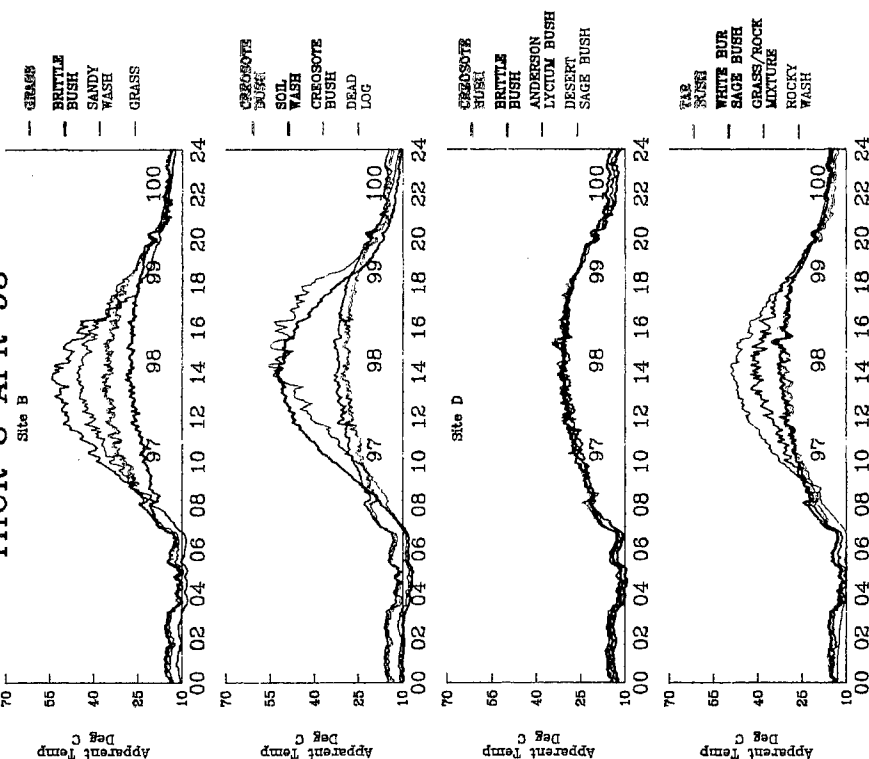
WED 7 APR 93





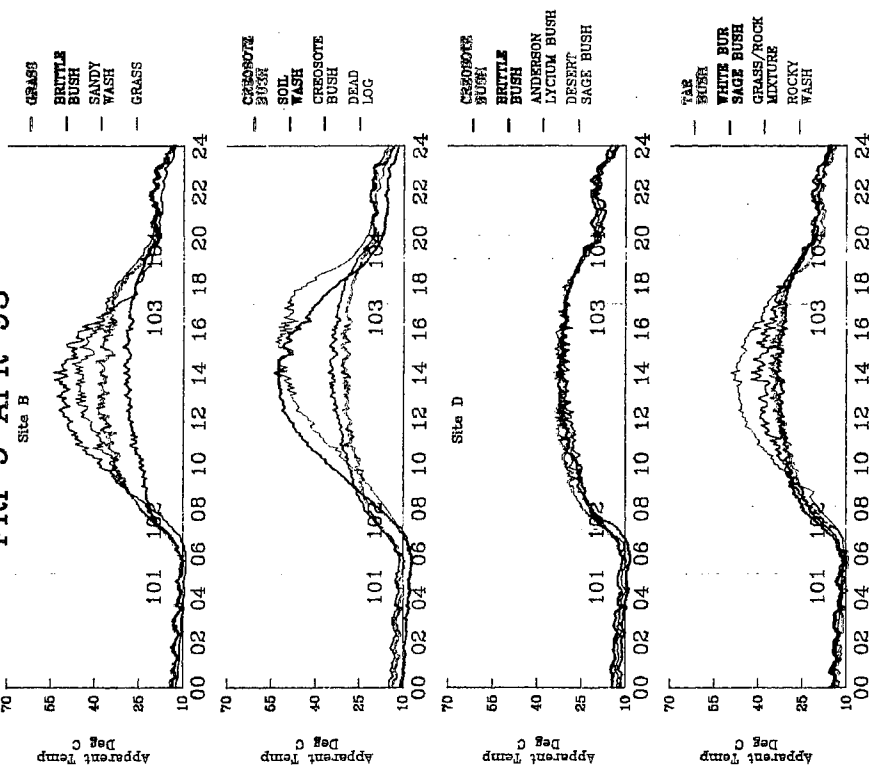
# Apparent Temperature

THUR 8 APR 93



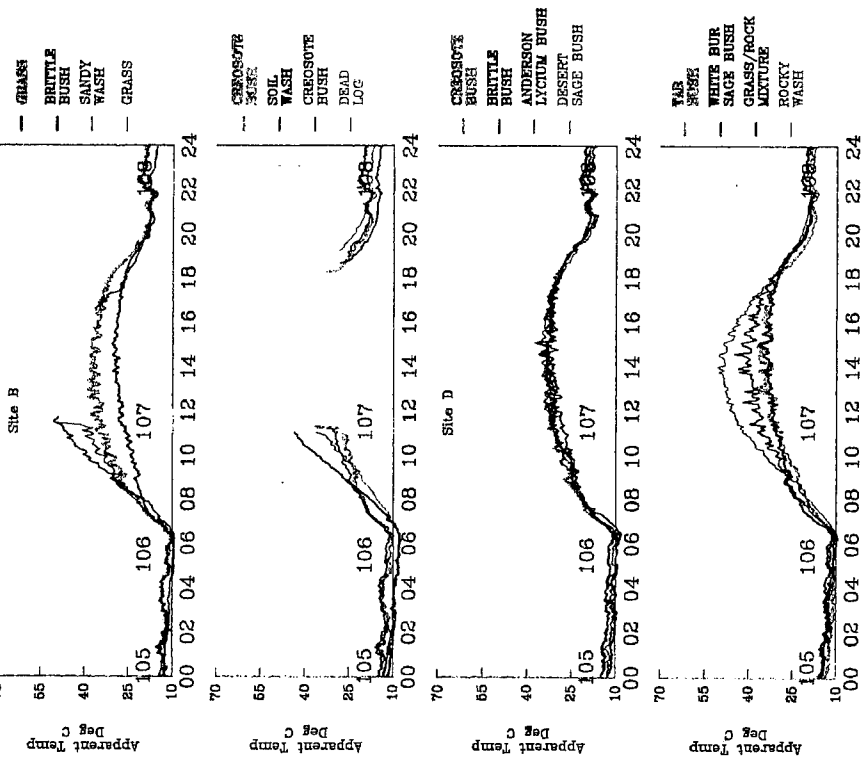
# Apparent Temperature

FRI 9 APR 93



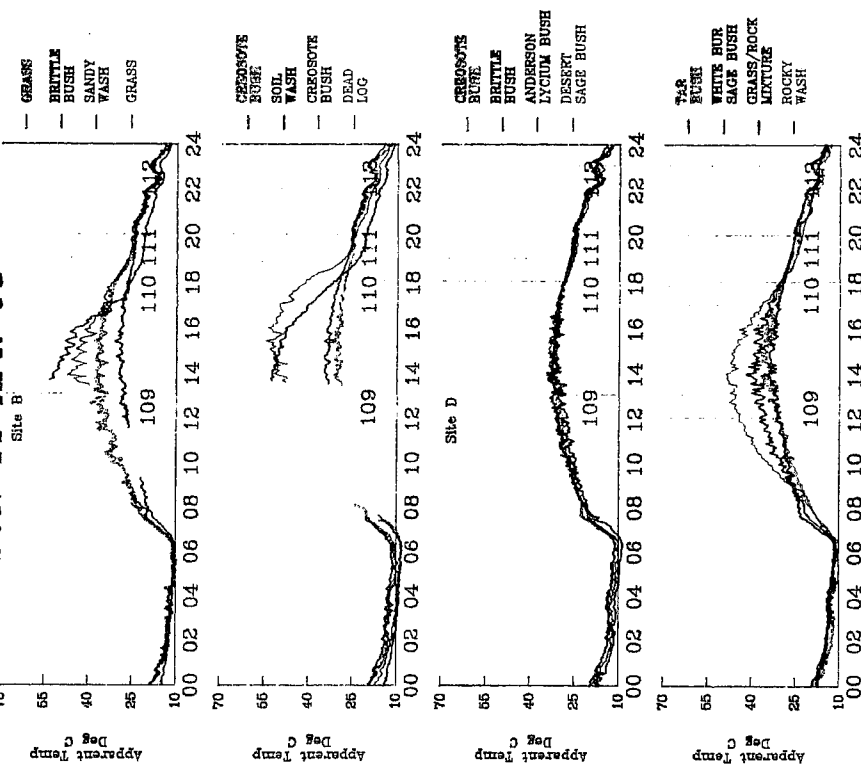
# Apparent Temperature

SAT 10 APR 93



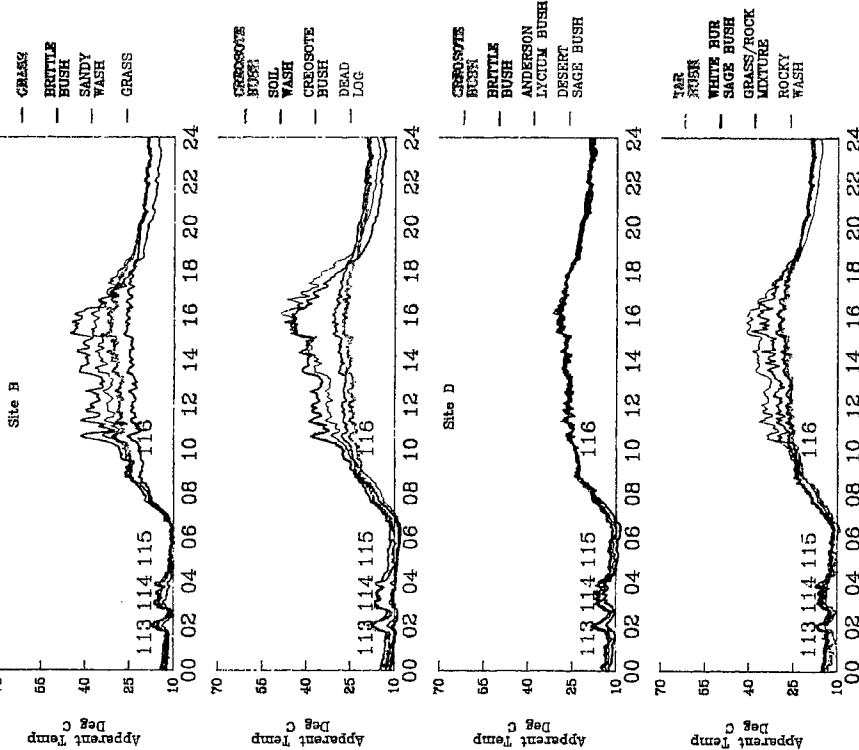
# Apparent Temperature

SUN 11 APR 93



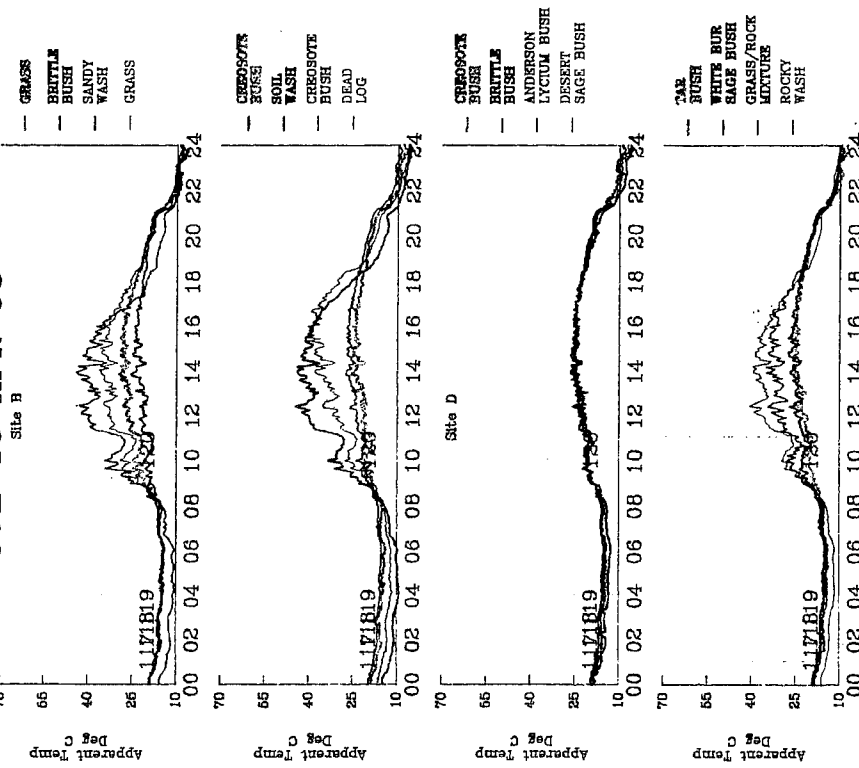
# Apparent Temperature

MON 12 APR 93



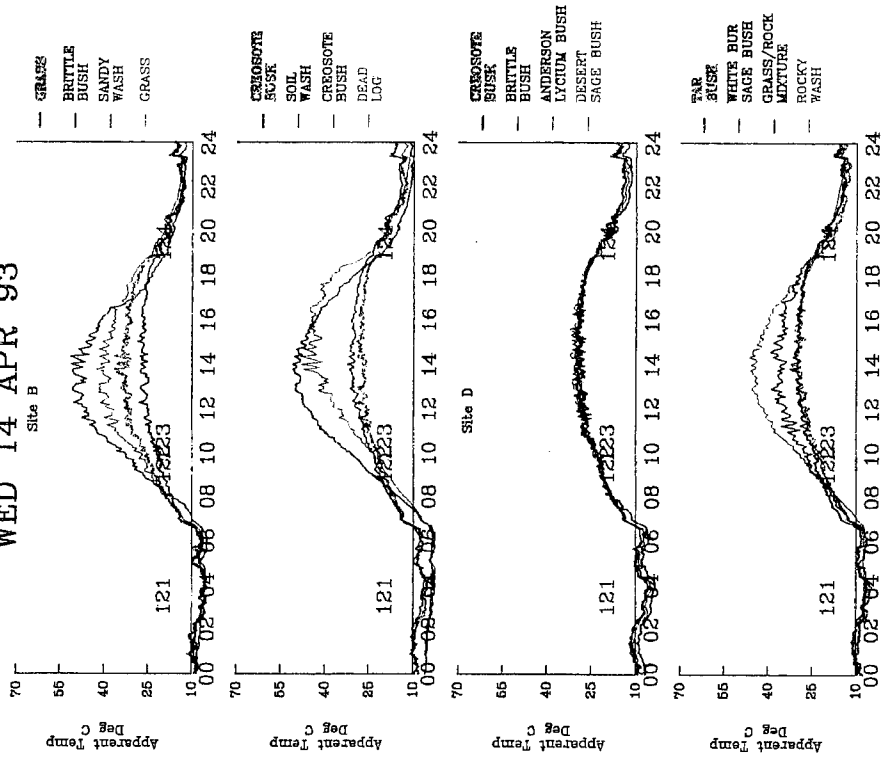
# Apparent Temperature

TUE 13 APR 93



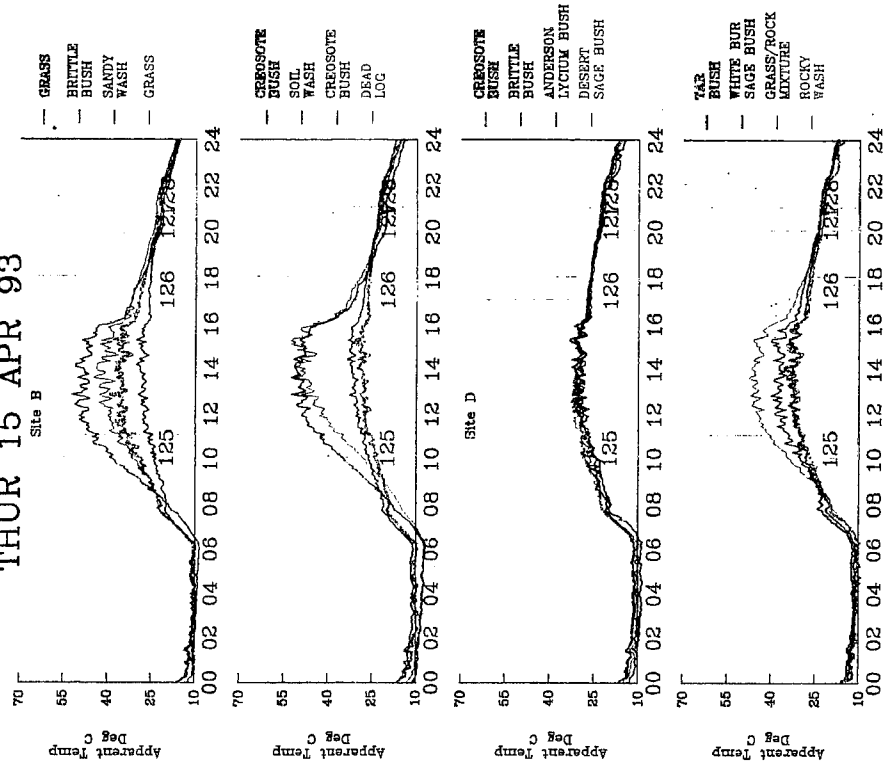
# Apparent Temperature

WED 14 APR 93



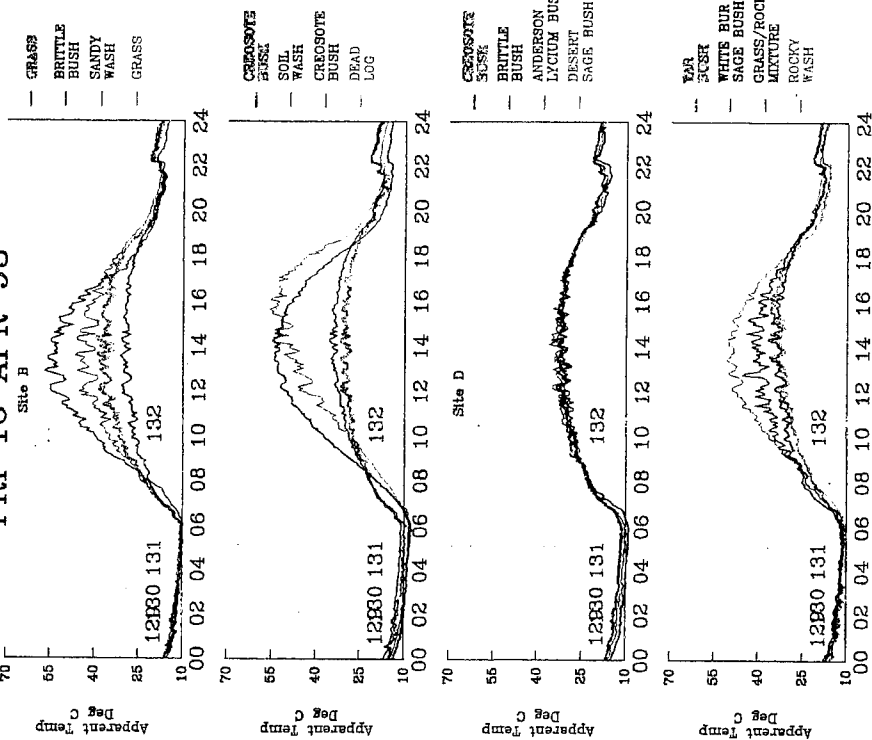
# Apparent Temperature

THUR 15 APR 93



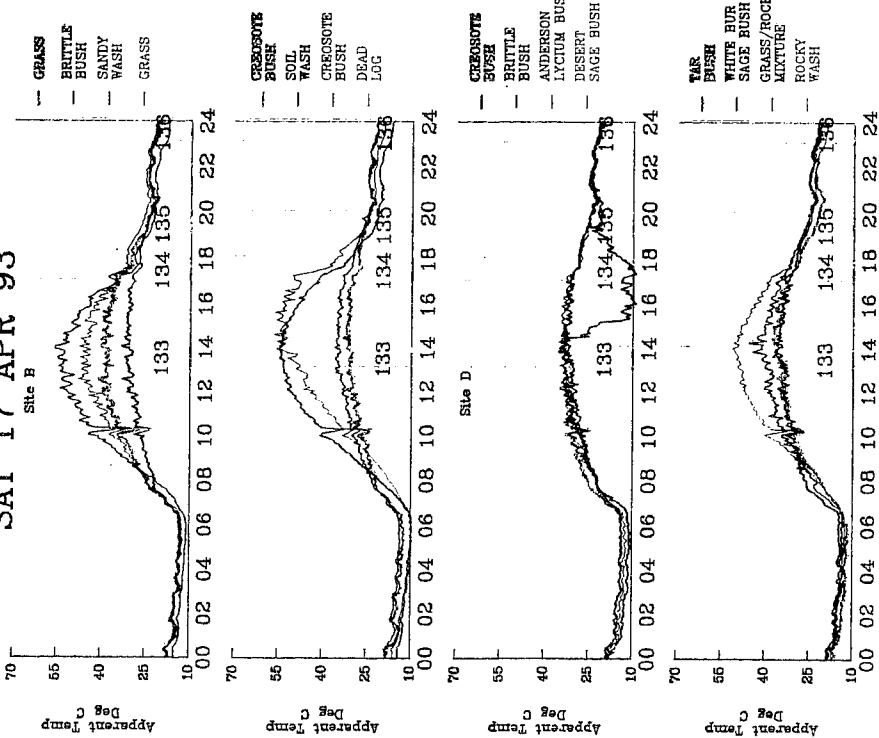
# Apparent Temperature

FRI 16 APR 93



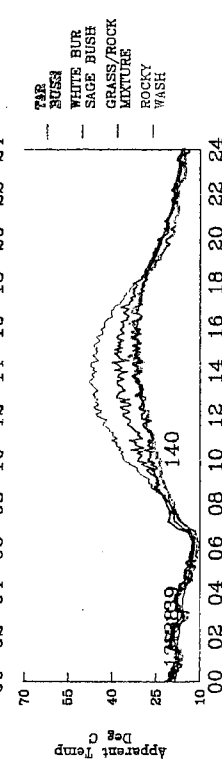
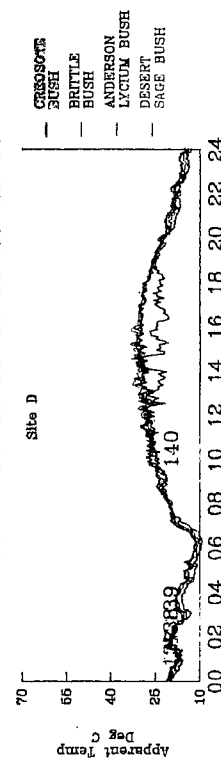
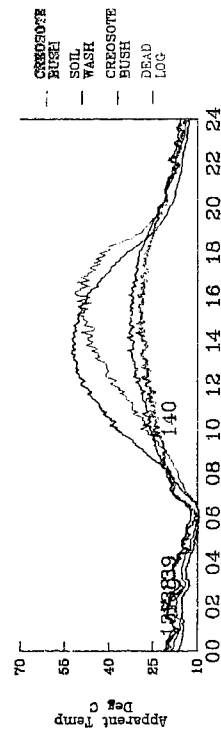
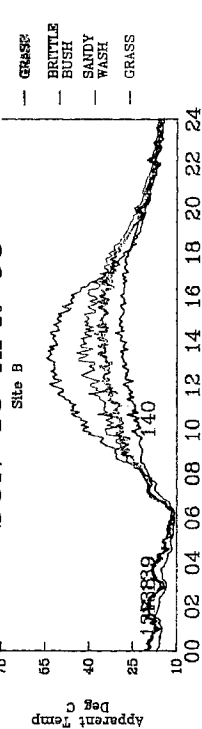
# Apparent Temperature

SAT 17 APR 93



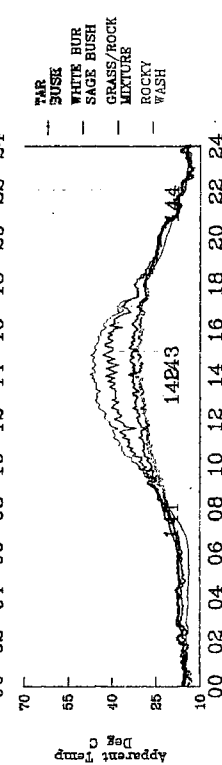
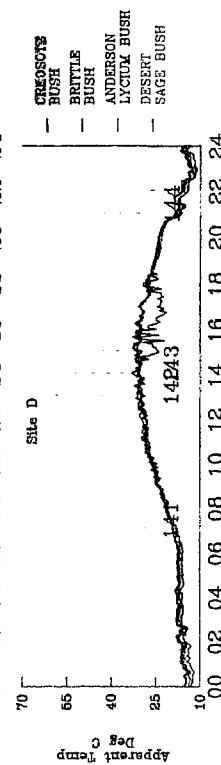
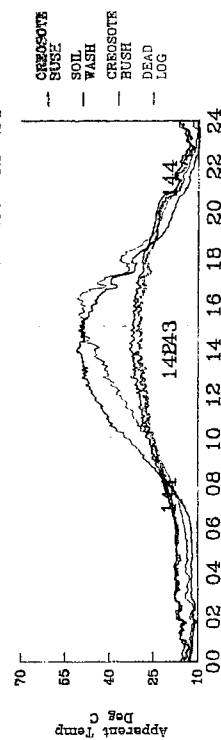
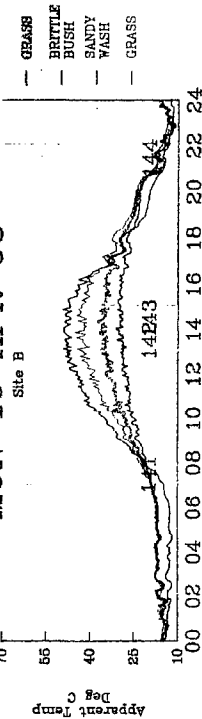
# Apparent Temperature

SUN 18 APR 93



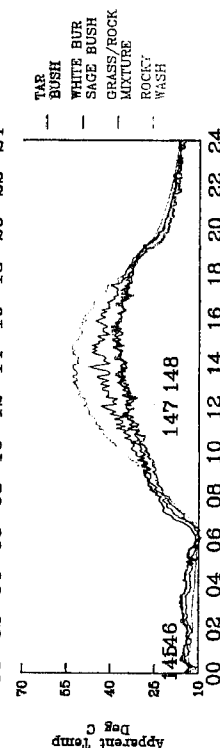
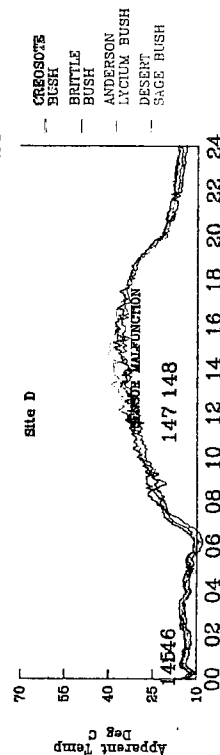
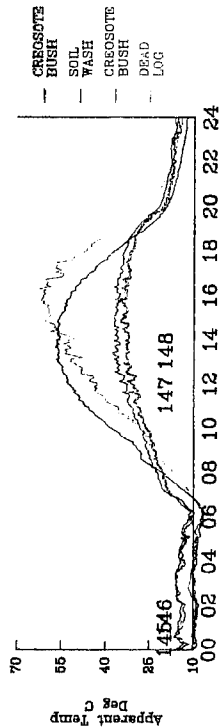
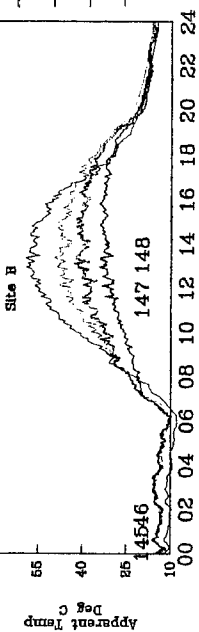
# Apparent Temperature

MON 19 APR 93



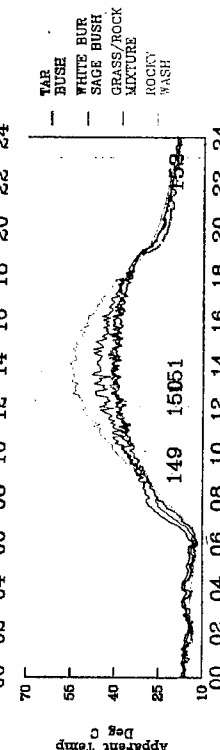
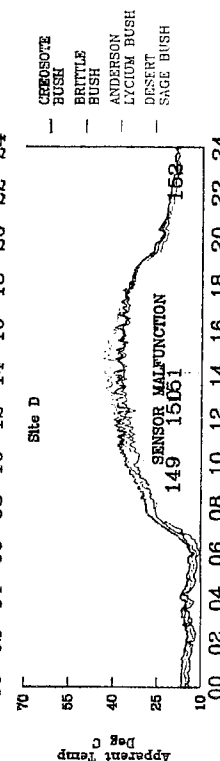
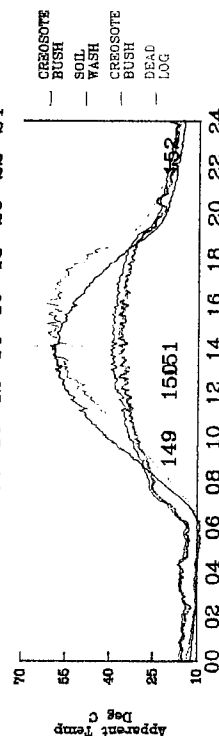
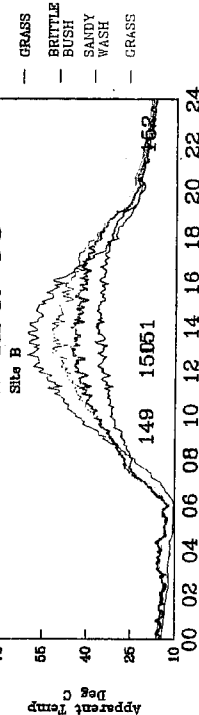
# Apparent Temperature

TUE 20 APR 93

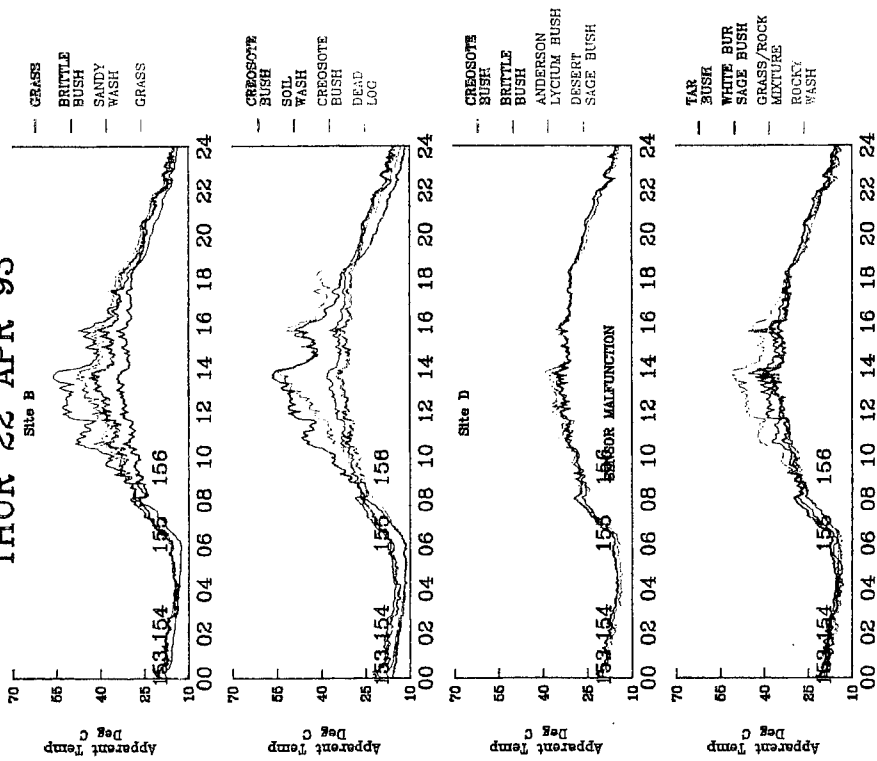


# Apparent Temperature

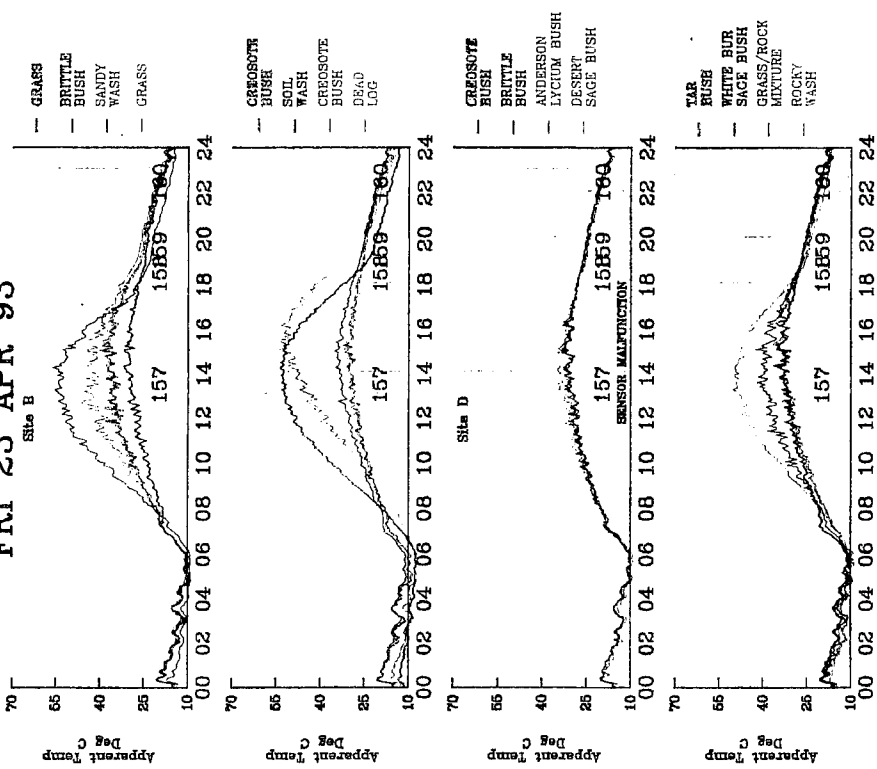
WED 21 APR 93



# Apparent Temperature THUR 22 APR 93



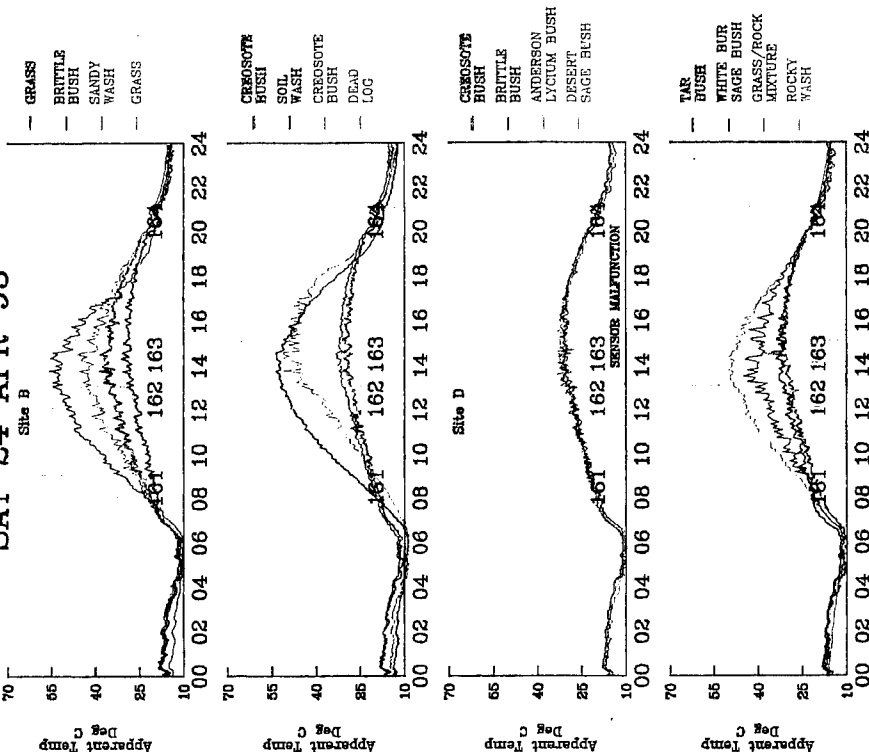
# Apparent Temperature FRI 23 APR 93





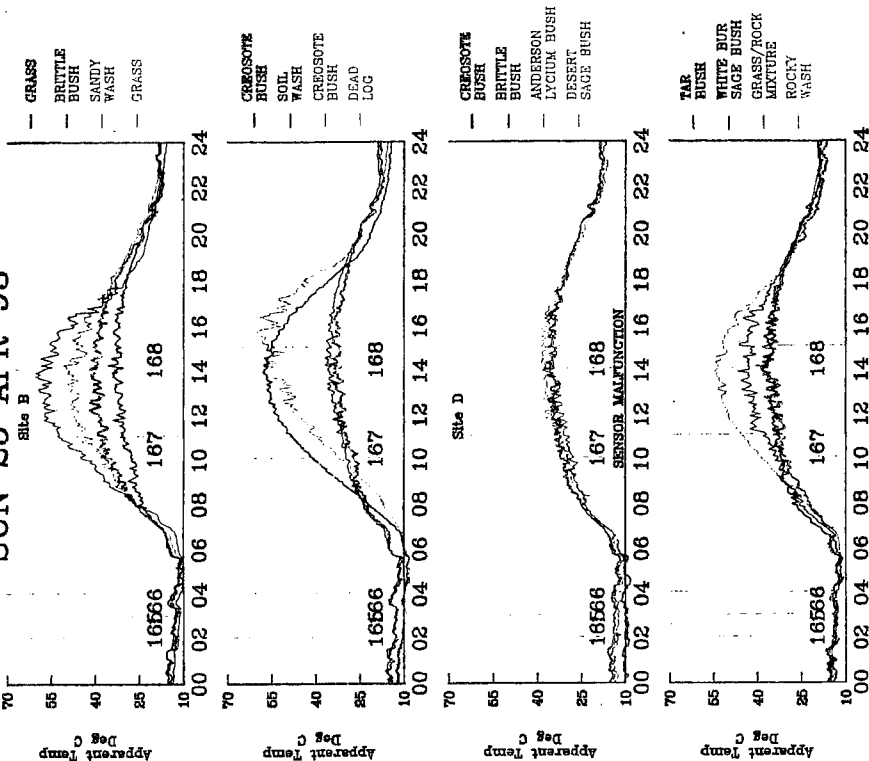
# Apparent Temperature

SAT 24 APR 93



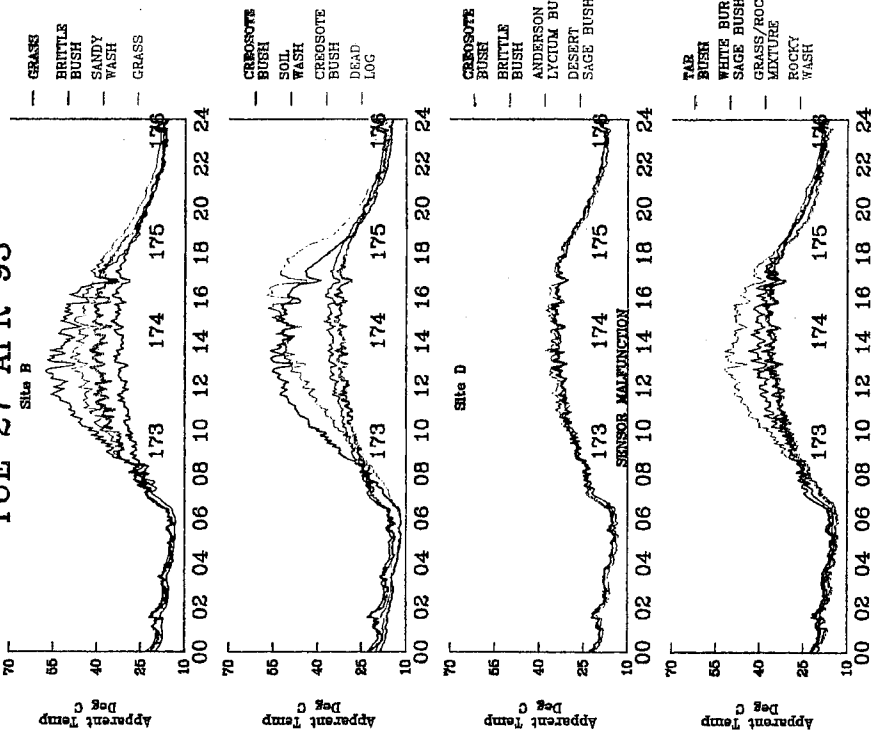
# Apparent Temperature

SUN 25 APR 93



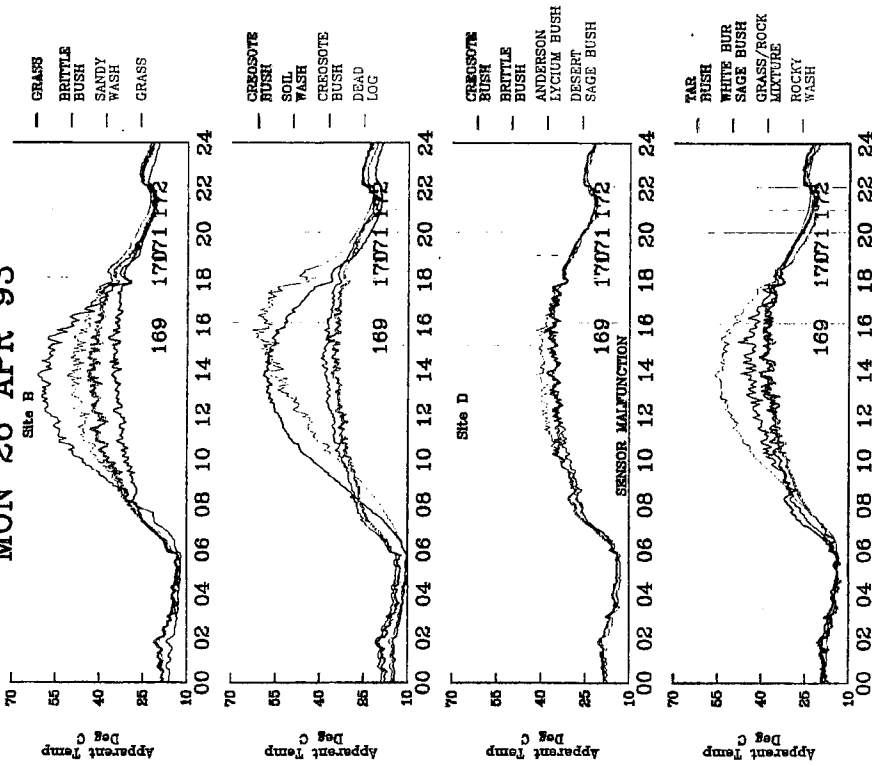
# Apparent Temperature

TUE 27 APR 93



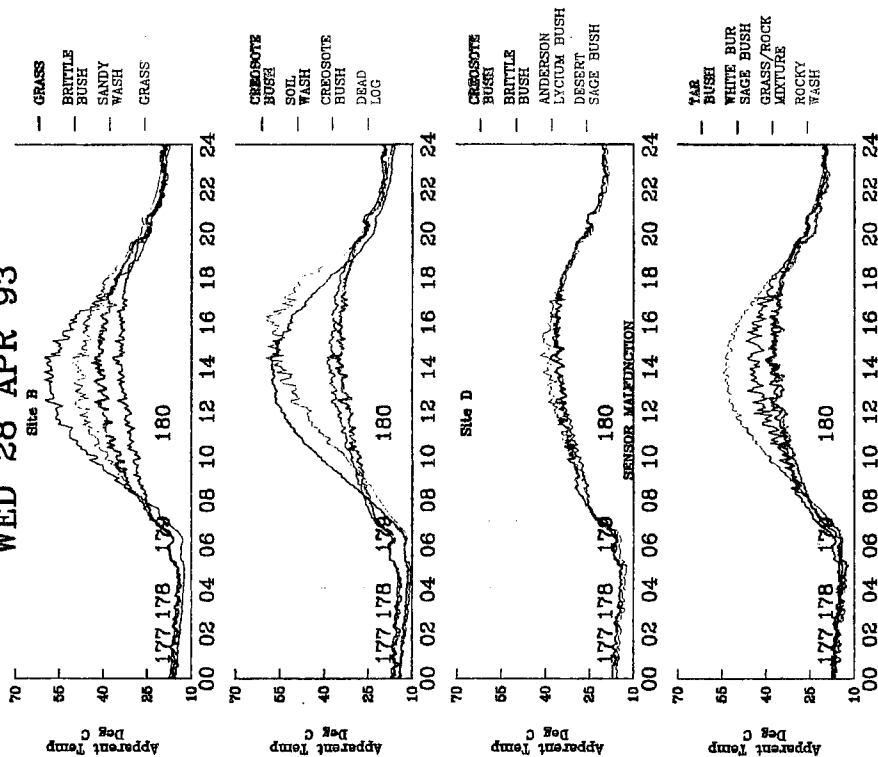
# Apparent Temperature

MON 26 APR 93



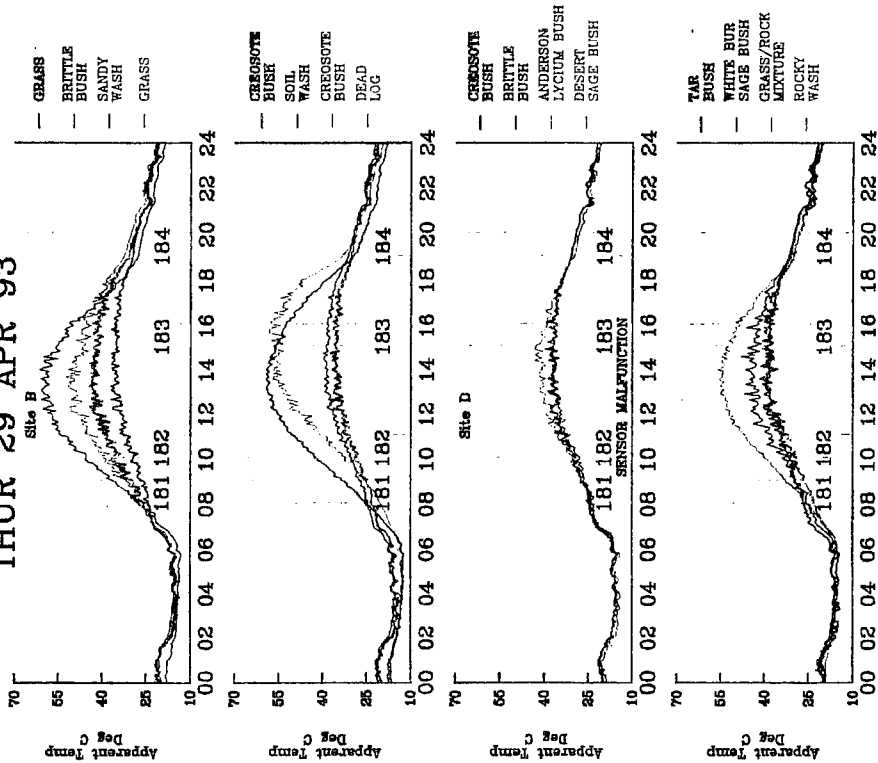
# Apparent Temperature

WED 28 APR 93



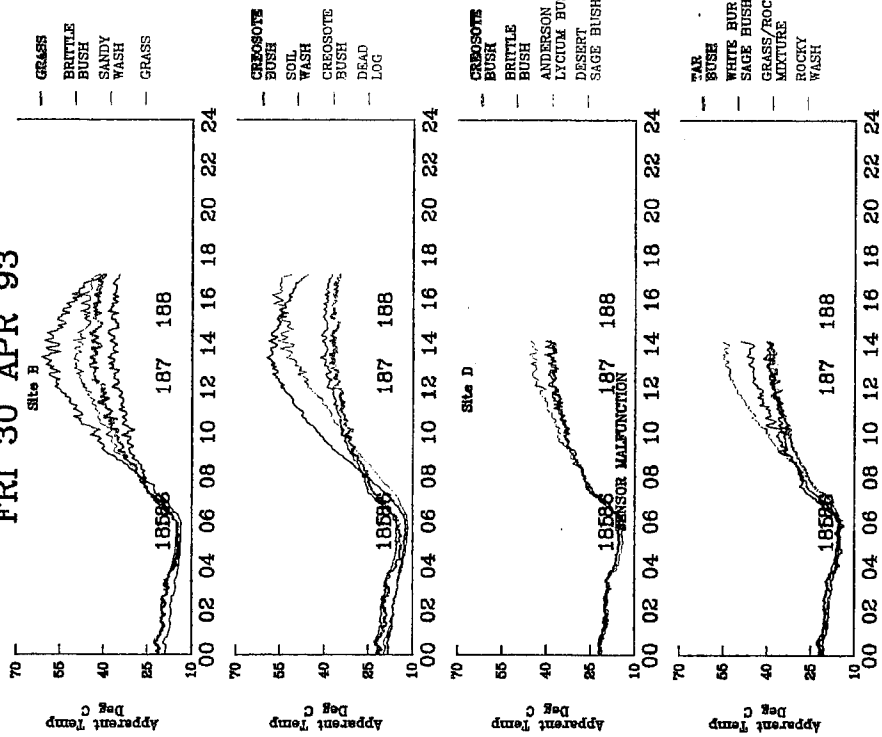
# Apparent Temperature

THUR 29 APR 93



# Apparent Temperature

FRI 30 APR 93



# **Appendix F**

## **Daily Soil Moisture Results**

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Date	Sample Day	Time	SITE A Azimuth Deg	SWOE Distance Steps	YUMA 1 WES 1 Troxler %VOL	SOIL WES 2 Speedy %WET	MOISTURE WES 3 Oven %DRY	Remarks
74	1	0825	80	3	6.1	3.5	3.8	
75	2	0910	165	5	1.3	3.8	4.1	
76	3	0845	314	6	1.5	2.5	2.4	
77	4	0915	170	2	2.6	3.2	3.3	
78	5	0850	280	1	2.5	2.4	3.1	
79	6	0845	276	3	2.6	2.9	3.3	
80	7	0730	347	7	2.5	2.5	2.6	
81	8	0755	270	9	0.7	1.8	2.3	
82	9	0650	31	2	2.4	2.3	2.9	
83	10	0945	172	7	1.8	2.4	3.0	
84	11	0845	229	1	2.3	2.6	3.1	
85	12	0725	161	3	2.1	2.3	2.8	
85	12	1635	347	2	5.7	11.4	12.9	RAIN
86	13	0730	68	2	9.8	11.2	13.0	
87	14	0815	248	1	5.8	8.5	9.4	
88	15	0805	136	8	5.9	8.5	8.4	
89	16	0810	310	6	3.2	4.5	5.4	
90	17	0700	191	6	3.9	3.9	4.4	
90	17	0725	103	5	3.8	3.1	3.5	
91	18	0740	69	3	3.5	3.9	4.4	
92	19	0750	180	6	3.4	3.2	3.4	
93	20	0740	251	7	2.8	3.3	4.5	
94	21	0630	204	2	3.0	2.5	3.0	
95	22	0630	100	4	3.4	3.4	3.5	
96	23	0845	257	8	2.5	2.2	2.8	
98	25	0750	247	21	2.6	2.6	3.8	
99	26	0910	191	5	2.1	2.6	3.3	
100	27	0735	306	6	2.1	2.6	2.4	
101	28	0830	333	6	2.9	2.5	3.1	
102	29	0815	128	2	2.1	1.8	2.8	
103	30	0725	57	3	0.9	2.0	2.3	
(Continued)								

(Concluded)								
Date	Sample Day	Time	SITE A Azimuth Deg	SWOE Distance Steps	YUMA 1 WES 1 Troxler %VOL	SOIL WES 2 Speedy %WET	MOISTURE WES 3 Oven %DRY	Remarks
104	31	0720	132	5	1.6	1.8	2.2	
105	32	0750	206	2	1.5	1.8	3.0	
106	33	0755	115	4	2.1	2.3	2.6	
107	34	0800	105	6	1.1	1.6	1.8	
108	35	0740	10	5	1.4	1.8	2.7	
109	36	0550	103	1	2.2	2.3	2.1	
110	37	0745	237	7	1.1	2.0	2.9	
111	38	0650	155	7	0.8	1.4	2.0	
112	39	1050	201	6	0.9	1.8	2.1	
113	40	0905	244	4	1.7	2.3	2.5	
114	41	0650	248	3	1.3	1.8	2.6	
115	42	0745	323	4	1.4	2.0	2.5	
116	43	0650	18	6	0.5	1.1	1.9	
117	44	0745	25	4	0.9	1.8	1.9	
118	45	0810	186	3	1.1	2.0	1.9	
119	46	0640	257	5	0.4	1.8		
120	47	0825	288	7	0.4	1.7		

Date	Sample Day	Time	SITE B Azimuth Deg	SWOE Distance Steps	YUMA 1 WES 1 Troxler %VOL	SOIL WES 2 Speedy %WET	MOISTURE WES 3 Oven %DRY	Remarks
74	1	1050	190	1	0.6	1.4	1.5	
75	2	0935	73	5	1.2	1.6	1.9	
76	3	0905	133	7	0.2	1.1	0.9	
77	4	0935	264	8		1.0	0.9	
78	5	0910	87	6	1.4	1.2	1.2	
79	6	0900	318	2	1.2	1.0	1.2	
80	7	0740	285	8	1.6	1.3	1.7	
81	8	0825	132	7	0.8	1.0	1.3	
82	9	0710	142	8	1.2	1.1	1.1	
83	10	1000	201	2	1.3	1.1	1.0	
84	11	0905	81	6	1.1	1.2	1.5	
85	12	0745	305	1	1.3	1.0	1.1	
85	12.5	1655	242	7	3.1	8.1	8.8	RAIN
86	13	0755	104	6	4.2	8.2	8.3	
87	14	0830	188	5	2.4	4.4	5.0	
88	15	0825	133	3	2.4	3.0	4.8	
89	16	0825	116	7	2.1	4.0	3.8	
90	17	0715	266	8	2.7	3.6	2.9	
91	18	0740	82	2	1.5	1.4	1.5	
92	19	0755	253	3	2.0	0.9	1.5	
93	20	0805	271	4	1.2	0.7	1.2	
94	21	0755	138	4	1.5	0.8	1.0	
95	22	0845	17	4	1.3	0.8	1.3	
96	23	0645	124	3	1.1	0.8	1.3	
97	24	0900	46	9	1.2	1.0	1.2	
98	25	0750	52	5	1.0	1.3	1.5	
99	26	0925	182	5	1.1	0.6	0.9	
100	27	0755	26	8	1.5	1.0	1.7	
101	28	0845	336	2	1.3	0.7	1.0	
102	29	0830	111	7	1.1	0.7	1.0	
103	30	0740	82	2	0.7	0.6	1.2	

(Continued)



(Concluded)								
Date	Sample Day	Time	SITE B Azimuth Deg	SWOE Distance Steps	YUMA 1 WES 1 Troxler %VOL	SOIL WES 2 Speedy %WET	MOISTURE WES 3 Oven %DRY	Remarks
104	31	0740	691	5	0.9	0.9	1.0	
105	32	0805	331	6	0.9	0.8	0.9	
106	33	0810	236	3	0.6	0.8	0.7	
107	34	0815	16	4	1.0	0.9	1.1	
108	35	0755	308	5	0.4	0.5	0.7	
109	36	0600	66	5	0.8	0.6	0.8	
110	37	0800	60	9	0.7	0.6	0.8	
111	38	0710	199	2	0.8	0.8	0.8	
112	39	1105	225	6	0.6	0.7	0.7	
113	40	0925	251	3	0.7	0.5	0.6	
114	41	0705	62	1	0.7	0.6	0.8	
115	42	0800	113	3	0.6	0.6	0.8	
116	43	0705	140	8	0.3	0.7	0.9	
117	44	0800	331	2	0.8	0.6	0.7	
118	45	0825	160	8	0.5	0.6	0.7	
119	46	0655	295	5	0.5	0.4		
120	47	0840	278	8	0.3	0.4		

Date	Sample Day	Time	SITE C Azimuth Deg	SWOE Distance Steps	YUMA 1 WES 1 Troxler %VOL	SOIL WES 2 Speedy %WET	MOISTURE WES 3 Oven %DRY	Remarks
74	1	1040	107	7	1.3	3.0	3.5	
75	2	0955	82	8	1.5	2.3	2.9	
76	3	0915	187	2	0.6	1.8	1.8	
77	4	0945	147	3	1.0	1.4	1.3	
78	5	0925	285	4	1.5	1.8	2.2	
79	6	0915	242	5	1.0	1.2	1.5	
80	7	0750	4	8	1.4	1.5	2.0	
81	8	0835	114	6	1.4	1.6	1.6	
82	9	0720	23	6	1.6	1.7	2.1	
83	10	1015	306	4	1.7	1.9	2.5	
84	11	0915	275	4	1.2	1.3	1.4	
85	12	0755	219	4	1.5	1.8	2.7	
85	12	1705	109	3	3.3	9.9	10.5	RAIN
86	13	0810	316	5	4.4	13.1	11.9	
87	14	0840	15	1	4.4	7.8	9.2	
88	15	0840	277	8	2.8	4.5	5.4	
89	16	0840	91	5	1.9	3.9	4.7	
90	17	0730	331	7	2.7	3.8	4.2	
91	18	0755	8	2	1.8	3.0	3.5	
92	19	0810	218	1	2.1	2.3	2.7	
93	20	0820	249	2	2.0	2.6	3.0	
94	21	0805	106	4	1.4	1.8	2.3	
95	22	0830	163	2	1.9	2.2	3.0	
96	23	0700	82	3	1.6	1.8	2.5	
97	24	0910	125	5	1.7	2.2	2.9	
98	25	0805	224	3	1.5	2.0	2.4	
99	26	0940	3	1	1.6	1.6	2.1	
100	27	0805	90	5	1.2	1.4	2.0	
101	28	0900	96	5	1.1	1.5	2.1	
102	29	0845	328	5	1.1	1.2	1.7	
103	30	0800	7	2	0.9	1.3	1.8	
(Continued)								

(Concluded)								
Date	Sample Day	Time	SITE C Azimuth Deg	SWOE Distance Steps	YUMA 1 WES 1 Troxler %VOL	SOIL WES 2 Speedy %WET	MOISTURE WES 3 Oven %DRY	Remarks
104	31	0750	76	8	0.8	1.1	1.2	
105	32	0820	175	7	1.2	1.5	1.8	
106	33	0825	188	9	1.8	1.9	1.9	
107	34	0830	239	6	1.2	1.6	2.0	
108	35	0810	314	3	1.1	1.2	2.0	
109	36	0615	249	4	1.1	1.3	1.3	
110	37	0815	150	6	1.2	1.2	1.6	
111	38	0725	302	4	1.1	1.3	1.4	
112	39	1115	259	6	1.4	1.7	2.0	
113	40	0940	215	9	0.9	0.9	1.1	
114	41	0720	332	2	0.9	1.1	1.9	
115	42	0815	62	3	1.2	1.5	1.7	
116	43	0720	200	2	1.6	1.6	1.6	
117	44	0815	265	5	1.1	1.4	1.4	
118	45	0840	55	6	1.1	1.5	1.6	
119	46	0710	291	2	1.0	1.2		
120	47	0850	351	8	0.8	1.1		

Date	Sample Day	Time	SITE D Azimuth Deg	SWOE Distance Steps	YUMA 1 WES 1 Troxler %VOL	SOIL WES 2 Speedy %WET	MOISTURE WES 3 Oven %DRY	Remarks
74	1	0845	282	3	1.0	1.9	2.3	
75	2	1010	315	5	1.4	2.2	2.3	
76	3	0930	31	6	0.4	1.0	1.1	
77	4	1000	105	2	0.8	1.2	1.6	
78	5	0940	153	1	1.5	1.2	1.4	
79	6	0930	173	3	0.9	1.3	1.6	
80	7	0800	311	7	1.2	1.2	1.4	
81	8	0855	236	9	0.7	1.1	1.2	
82	9	0740	222	2	1.7	1.9	1.4	
83	10	1035	116	7	1.2	1.2	1.8	
84	11	0935	145	1	0.9	1.4	1.8	
85	12	0810	157	3	0.9	1.1	1.5	
85	12	1720	78	2	3.2	11.6	12.0	RAIN
86	13	0835	175	2	4.9	9.2	10.3	
87	14	0900	11	1	2.0	5.0	5.3	
88	15	0855	301	8	1.8	3.0	3.1	
89	16	0855	168	6	2.9	4.9	5.2	
90	17	0740	288	6	2.0	1.8	2.4	
91	18	0805	57	3	1.1	2.0	1.9	
92	19	0820	2	4	1.5	1.7	2.1	
93	20	0830	24	5	1.3	1.6	1.5	
94	21	0825	127	4	1.8	2.3	2.7	
95	22	0815	66	8	1.2	1.2	1.5	
96	23	0710	110	4	1.5	1.2	1.7	
97	24	0925	192	7	1.7	1.4	1.4	
98	25	0815	109	9	1.1	1.3	1.7	
99	26	0955	3	1	1.1	1.0	1.2	
100	27	0820	167	6	1.6	1.6	1.6	
101	28	0910	171	6	1.0	1.2	1.4	
102	29	0900	183	2	0.9	1.1	1.2	
103	30	0810	57	3	1.0	0.8	1.0	
(Continued)								

(Concluded)								
Date	Sample Day	Time	SITE D Azimuth Deg	SWOE Distance Steps	YUMA 1 WES 1 Troxler %VOL	SOIL WES 2 Speedy %WET	MOISTURE WES 3 Oven %DRY	Remarks
104	31	0810	311	5	0.6	1.0	1.0	
105	32	0835	279	2	0.7	1.0	1.3	
106	33	0840	340	4	0.9	1.1	1.3	
107	34	0850	222	6	0.6	0.7	0.9	
108	35	0820	71	5	0.6	1.1	1.0	
109	36	0630	127	1	0.7	1.0	1.2	
110	37	0830	210	7	0.6	0.9	1.1	
111	38	0740	113	7	0.7	0.9	1.1	
112	39	1130	236	6	0.2	0.6	0.7	
113	40	0955	359	4	0.8	1.0	1.6	
114	41	0730	32	3	0.7	1.0	1.2	
115	42	0825	96	4	0.5	0.8	1.0	
116	43	0735	41	6	0.4	0.8	1.0	
117	44	0830	189	4	0.5	0.8	1.0	
118	45	0855	245	3	0.3	0.7	0.8	
119	46	0720	54	5	0.4	0.6		
120	47	0905	302	7	0.5	0.6		

Date	Sample Day	Time	SITE E Azimuth Deg	SWOE Distance Steps	YUMA 1 WES 1 Troxler %VOL	SOIL WES 2 Speedy %WET	MOISTURE WES 3 Oven %DRY	Remarks
74	1	0810	199	7	3.3	3.3	3.9	
75	2	0850	325	6	1.6	2.1	2.7	
76	3	0835	85	9	3.5	3.2	3.3	
77	4	0900	347	5	1.4	1.5	3.0	
78	5	0835	352	2	1.1	2.0	2.5	
79	6	0830	97	8	3.6	3.3	3.6	
80	7	0715	30	2	1.3	1.8	2.3	
81	8	0640	54	9	3.2	2.9	3.7	
82	9	0635	103	5	2.4	2.5	2.9	
83	10	0925	221	4	1.7	1.8	2.1	
84	11	0830	340	2	0.4	1.9	2.3	
85	12	0715	70	7	3.7	3.1	3.4	
85	12	1625	304	4	3.7	11.1	11.9	RAIN
86	13	0720	27	3	6.2	10.2	12.9	
87	14	0800	196	1	2.5	6.7	7.4	
88	15	0750	86	7	5.1	8.1	8.3	
89	16	0755	232	1	2.8	4.3	3.6	
90	17	0650	352	1	2.8	4.7	4.4	
91	18	0710	342	8	3.2	3.2	4.2	
92	19	0725	326	3	1.3	2.0	2.4	
93	20	0735	3	4	2.4	3.0	3.5	
94	21	0725	95	3	2.4	3.1	3.3	
95	22	0615	212	7	2.0	2.3	3.0	
96	23	0615	68	2	2.2	2.1	3.2	
97	24	0830	271	2	1.9	1.8	2.0	
98	25	0720	282	9	1.8	1.7	1.9	
99	26	0900	183	1	1.4	1.6	2.0	
100	27	0725	231	1	1.7	1.7	2.5	
101	28	0815	237	1	2.0	1.7	2.6	
102	29	0800	39	3	2.2	2.0	2.6	
103	30	0710	342	8	2.7	2.0	3.1	
(Continued)								

(Concluded)								
Date	Sample Day	Time	SITE E Azimuth Deg	SWOE Distance Steps	YUMA 1 WES 1 Troxler %VOL	SOIL WES 2 Speedy %WET	MOISTURE WES 3 Oven %DRY	Remarks
104	31	0710	317	5		1.2	1.5	No Troxler Reading
105	32	0730	123	3	1.5	1.4	2.4	
106	33	0745	292	2	1.3	1.2	1.6	
107	34	0745	247	7	0.7	1.4	0.7	
108	35	0725	77	5	2.3	2.1	2.4	
109	36	0535	310	1	1.8	1.7	1.4	
110	37	0730	299	3	0.9	0.9	1.2	
111	38	0635	217	4	0.7	0.8	1.6	
112	39	1035	270	7	0.6	0.9	1.7	
113	40	0850	322	3	0.6	1.1	1.4	
114	41	0640	302	7	0.6	1.2	1.7	
115	42	0730	45	2	0.9	1.4	1.9	
116	43	0630	100	9	1.4	1.8	2.2	
117	44	0730	123	9	1.3	2.0	2.3	
118	45	0755	140	6	1.1	1.6	2.0	
119	46	0625	51	5	1.7	2.0		
120	47	0810	16	2	0.9	1.3		

Date	Sample Day	Time	SITE F Azimuth Deg	SWOE Distance Steps	YUMA 1 WES 1 Troxler %VOL	SOIL WES 2 Speedy %WET	MOISTURE WES 3 Oven %DRY	Remarks
74	1	0745	98	5	1.2	2.0	2.6	
74	1	0825	69	4	1.2	1.9	1.7	
75	2	0820	232	7	0.7	0.9	1.3	
76	3	0840	24	8	1.1	1.3	1.6	
77	4	0820	223	6	1.4	1.4	1.8	
78	5	0810	199	6	1.9	2.0	2.2	
79	6	0700	75	5	1.1	1.1	1.4	
80	7	0625	29	8	0.6	0.8	1.4	
81	8	0620	54	4	1.5	1.6	1.3	
82	9	0900	95	5	1.2	1.2	1.8	
83	10	0810	130	6	0.8	1.3	1.6	
84	11	0700	3	2	0.4	1.1	1.4	
85	12	1610	94	8	3.1	10.1	9.8	RAIN
85	12	0655	47	6	6.2	9.0	9.9	
86	13	0745	255	2	2.2	6.4	6.8	
87	14	0730	127	9	1.8	3.6	3.8	
88	15	0745	123	9	1.7	2.9	2.9	
89	16	0630	222	4	2.0	2.0	2.0	
90	17	0655	163	7	3.3	2.9	3.2	
91	18	0715	86	8	2.4	1.2	1.4	
92	19	0720	244	7	1.0	1.6	1.7	
93	20	0710	271	2	0.9	1.2	1.3	
94	21	0600	45	4	1.3	1.7	1.6	
95	22	0600	142	4	0.8	1.3	1.8	
96	23	0815	293	6	0.4	1.4	1.6	
98	25	0705	353	2	0.8	1.3	1.1	
99	26	0845	104	1	1.2	1.0	1.2	
100	27	0710	244	2	1.4	1.2	1.3	
101	28	0800	247	2	0.6	1.3	1.6	
102	29	0740	128	2	0.4	1.1	1.4	
103	30	0650	106	3	1.4	1.7	1.7	
(Continued)								



(Concluded)								
Date	Sample Day	Time	SITE F Azimuth Deg	SWOE Distance Steps	YUMA 1 WES 1 Troxler %VOL	SOIL WES 2 Speedy %WET	MOISTURE WES 3 Oven %DRY	Remarks
104	31	0640	187	3	0.2	0.6	0.8	
105	32	0715	24	8	0.1	0.6	0.9	
106	33	0725	132	6	0.7	0.7	1.4	
107	34	0730	205	6	0.1	0.8	1.4	
108	35	0710	187	8	0.3	0.6	0.9	
109	36	0520	5	2	0.0	0.3	1.0	
110	37	0715	270	2	0.1	0.6	1.3	
111	38	0620	284	5	0.2	0.8	0.7	
112	39	1020	214	6	0.1	0.8	1.0	
113	40	0840	144	7	0.4	0.9	0.8	
114	41	0625	91	2	0.1	1.0	1.3	
115	42	0715	130	3	0.2	0.9	1.1	
116	43	0615	240	4	0.1	0.7	0.9	
117	44	0720	114	8	0.0	0.6	0.8	
118	45	0735	75	5	0.3	0.8	1.3	
119	46	0610	177	8	0.0	0.4		
120	47	0800	253	7	0.5	0.9		

# **Appendix G**

## **Plant Geometry and Location**

### **Data**

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Number	Plant Name	Species	Height	Width	East	North	Elevation
1	1714 CR	Creosote	1.7	1.2	755910.000	3650830.000	245.340
2	1715 CR	Creosote	1.5	1.2	755909.100	3650829.000	245.382
3	1884 CR	Creosote	0.6	0.7	755908.500	3650828.000	244.837
4	2001 CR	Creosote	1.4	1.0	755906.600	3650833.000	245.149
5	2002 CR	Creosote	1.8	1.2	755902.900	3650833.000	245.110
6	2003 CR	Creosote	1.6	0.9	755900.800	3650827.000	245.120
7	2004 CR	Creosote	0.9	1.2	755907.800	3650826.000	245.479
8	2005 CR	Creosote	1.9	1.0	755905.400	3650823.000	246.155
9	2006 CR	Creosote	1.1	0.8	755904.300	3650823.000	246.080
10	2007 CR	Creosote	1.7	1.3	755904.600	3650822.000	245.235
11	2008 CR	Creosote	1.8	1.3	755899.800	3650824.000	245.217
12	2009 CR	Creosote	1.6	0.8	755904.400	3650816.000	245.071
13	2010 WB	White Burr Sage	0.9	0.4	755899.400	3650814.000	245.091
14	2011 CR	Creosote	1.8	1.3	755898.600	3650818.000	245.934
15	2012 CR	Creosote	1.1	0.8	755891.100	3650820.000	245.303
16	2013 CR	Creosote	1.5	0.9	755891.400	3650818.000	245.042
17	2014 CR	Creosote	0.5	0.5	755892.100	3650829.000	245.443
18	2015 CR	Creosote	2.5	1.4	755885.100	3650817.000	246.254
19	2016 WB	White Burr Sage	0.9	0.6	755883.400	3650816.000	245.904
20	2017 WB	White Burr Sage	0.8	0.5	755884.200	3650815.000	246.931
21	2018 CR	Creosote	1.3	0.8	755891.300	3650813.000	246.027
22	2019 CR	Creosote	1.4	1.4	755893.600	3650813.000	245.889
23	2020 CR	Creosote	1.1	1.2	755841.300	3650833.000	245.760
24	2021 CR	Creosote	0.8	0.8	755839.600	3650837.000	245.428
25	2022 CR	Creosote	2.0	1.3	755838.300	3650838.000	245.279
26	2023 CR	Creosote	1.0	0.7	755833.500	3650839.000	245.573
27	2024 CR	Creosote	1.6	1.1	755830.800	3650844.000	245.292
28	2025 CC	Catclaw	7.5	5.9	755827.100	3650843.000	245.144
29	2026 B2	Unidentified	1.1	0.7	755821.300	3650845.000	244.999
30	2027 GP	Cholla	1.0	0.9	755820.500	3650845.000	245.161
31	2028 GP	Cholla	2.1	1.4	755817.500	3650843.000	245.223
32	2029 DW	Deadwood	3.6	1.0	755816.600	3650842.000	244.908

(Sheet 1 of 59)

Number	Plant Name	Species	Height	Width	East	North	Elevation
33	2030 YP	Yellow Paloverde	0.9	1.2	755818.700	3650840.000	244.932
34	2031 CR	Creosote	2.4	1.6	755825.700	3650841.000	244.833
35	2032 DW	Deadwood	1.1	3.6	755825.200	3650836.000	244.812
36	2033 CR	Creosote	2.1	1.7	755822.500	3650832.000	245.017
37	2034 CR	Creosote	1.5	1.1	755831.400	3650835.000	245.197
38	2035 CR	Creosote	1.4	1.6	755830.600	3650832.000	245.071
39	2036 CR	Creosote	0.9	1.0	755827.800	3650832.000	244.907
40	2037 CR	Creosote	2.2	1.5	755824.600	3650828.000	244.898
41	2038 CR	Creosote	1.3	1.1	755819.600	3650829.000	245.138
42	2039 CR	Creosote	1.6	1.2	755814.400	3650829.000	245.269
43	2040 CR	Creosote	1.2	1.1	755813.800	3650829.000	245.336
44	2041 CR	Creosote	0.9	1.0	755813.600	3650835.000	245.115
45	2042 CR	Creosote	2.4	1.6	755809.800	3650834.000	244.772
46	2043 CR	Creosote	1.7	1.9	755809.200	3650834.000	244.767
47	2044 CR	Creosote	1.7	1.9	755811.000	3650830.000	244.749
48	2045 CR	Creosote	1.9	2.0	755809.300	3650829.000	245.093
49	2047 DS	Brittle Bush	0.4	0.4	755815.600	3650826.000	245.030
50	2047 DS	Brittle Bush	0.4	0.3	755818.900	3650825.000	245.186
51	2048 CR	Creosote	0.7	0.6	755820.700	3650821.000	244.677
52	2049 DS	Brittle Bush	0.3	0.2	755823.400	3650817.000	244.659
53	2050 CR	Creosote	1.2	1.0	755825.900	3650813.000	244.825
54	2051 CR	Creosote	0.8	0.8	755825.800	3650812.000	244.714
55	2052 CR	Creosote	1.3	1.0	755825.900	3650811.000	244.869
56	2053 CR	Creosote	1.4	1.1	755829.700	3650814.000	244.960
57	2054 CR	Creosote	0.5	0.4	755829.500	3650812.000	245.355
58	2055 CR	Creosote	0.9	0.8	755833.600	3650803.000	246.124
59	2056 CR	Creosote	1.3	0.9	755833.800	3650802.000	246.572
60	2057 CR	Creosote	0.5	0.3	755967.400	3650832.000	246.838
61	2058 WB	White Burr Sage	0.6	0.3	755967.600	3650831.000	246.921
62	2059 CR	Creosote	2.0	0.9	755901.800	3650808.000	246.605
63	2060 CR	Creosote	1.5	1.0	755818.400	3650835.000	246.719
64	2061 CR	Creosote	1.9	1.3	755814.300	3650835.000	248.286

(Sheet 2 of 59)

Number	Plant Name	Species	Height	Width	East	North	Elevation
65	2062 CR	Creosote	1.9	1.3	755814.800	3650836.000	248.286
66	2063 DS	Brittle Bush	0.2	0.3	755810.900	3650823.000	244.822
67	2064 CR	Creosote	1.5	1.3	755809.000	3650826.000	244.741
68	2065 DS	Brittle Bush	0.3	0.3	755808.300	3650825.000	244.630
69	2066 CR	Creosote	3.3	2.1	755805.800	3650828.000	244.789
70	2067 DS	Brittle Bush	2.0	1.0	755804.100	3650827.000	244.697
71	2068 DS	Brittle Bush	1.7	1.1	755804.900	3650830.000	244.939
72	2069 CR	Creosote	3.5	2.2	755803.300	3650832.000	244.241
73	2070 CC	Catclaw	3.4	2.4	755804.700	3650833.000	244.304
74	2071 DW	Deadwood	3.9	2.1	755807.200	3650831.000	244.762
75	2072 DS	Brittle Bush	0.4	0.4	755797.600	3650831.000	244.131
76	2073 CR	Creosote	4.2	2.0	755798.800	3650830.000	244.181
77	2074 DS	Brittle Bush	1.8	1.1	755801.000	3650830.000	244.314
78	2075 DS	Brittle Bush	0.4	0.4	755797.600	3650826.000	244.804
79	2076 DW	Deadwood	1.2	1.5	755795.300	3650826.000	244.335
80	2077 CR	Creosote	2.8	1.7	755798.300	3650823.000	244.343
81	2078 CR	Creosote	1.6	1.1	755800.900	3650823.000	244.636
82	2079 PB	Morman Tea	0.7	0.6	755801.600	3650821.000	244.655
83	2080 WB	White Burr Sage	1.5	0.8	755804.400	3650823.000	244.717
84	2081 CR	Creosote	1.7	1.8	755806.600	3650821.000	244.593
85	2082 CR	Creosote	1.4	1.0	755804.600	3650820.000	244.608
86	2083 CR	Creosote	1.1	0.8	755804.700	3650819.000	244.728
87	2084 CR	Creosote	1.2	0.4	755807.800	3650812.000	245.277
88	2085 CR	Creosote	1.5	0.9	755809.600	3650808.000	245.999
89	2086 CR	Creosote	0.7	0.3	755812.300	3650811.000	245.953
90	2087 CR	Creosote	0.4	0.4	755811.900	3650807.000	246.229
91	2088 CR	Creosote	1.8	0.7	755814.300	3650807.000	246.562
92	2088 DS	Brittle Bush	0.7	0.6	755811.100	3650805.000	246.632
93	2090 WB	White Burr Sage	0.3	0.5	755798.900	3650818.000	244.523
94	2091 DS	Brittle Bush	0.4	0.5	755798.400	3650818.000	244.469
95	2092 WB	White Burr Sage	1.5	1.0	755798.600	3650816.000	244.332
(Sheet 3 of 59)							

Number	Plant Name	Species	Height	Width	East	North	Elevation
96	2093 DS	Brittle Bush	1.8	0.9	755796.100	3650820.000	244.370
97	2094 CR	Creosote	2.0	1.1	755793.400	3650824.000	244.492
98	2095 WB	White Burr Sage	0.7	0.3	755792.800	3650823.000	244.410
99	2096 CR	Creosote	1.3	0.8	755794.400	3650818.000	244.584
100	2097 CR	Creosote	3.2	1.9	755793.000	3650819.000	244.357
101	2098 DW	Deadwood	0.6	0.7	755797.300	3650814.000	244.848
102	2099 CR	Creosote	2.2	1.5	755668.300	3650814.000	244.280
103	3000 CR	Creosote	2.1	1.1	755668.900	3650817.000	244.104
104	3001 CR	Creosote	1.8	1.0	755670.600	3650815.000	244.273
105	3002 CR	Creosote	1.2	0.9	755671.800	3650817.000	244.253
106	3003 CR	Creosote	1.6	0.8	755676.600	3650815.000	244.227
107	3004 WB	White Burr Sage	0.3	0.3	755681.900	3650814.000	245.140
108	3005 WB	White Burr Sage	0.7	0.4	755683.900	3650813.000	244.285
109	3006 CR	Creosote	2.3	1.1	755686.300	3650813.000	244.463
110	3007 CR	Creosote	1.6	1.9	755681.200	3650818.000	244.499
111	3008 CR	Creosote	2.7	1.9	755672.800	3650822.000	244.318
112	3009 CR	Creosote	3.2	1.3	755674.400	3650822.000	244.319
113	3010 YP	Yellow Paloverde	6.9	4.0	755667.600	3650820.000	244.413
114	3011 PB	Morman Tea	1.4	2.1	755671.100	3650824.000	244.188
115	3012 DW	Deadwood	1.5	0.4	755673.300	3650830.000	244.144
116	3013 CR	Creosote	2.3	1.1	755675.900	3650829.000	244.785
117	3014 WB	White Burr Sage	0.8	0.5	755682.100	3650826.000	243.854
118	3015 DH	Desert Holly	1.0	1.2	755680.400	3650828.000	244.183
119	3016 DH	Desert Holly	0.7	0.7	755682.700	3650827.000	244.193
120	3017 DH	Desert Holly	1.8	1.5	755684.100	3650827.000	244.187
121	3018 DH	Desert Holly	2.0	1.5	755684.300	3650827.000	244.226
122	3019 CR	Creosote	1.9	1.1	755681.900	3650830.000	244.272
123	3020 CR	Creosote	0.8	1.0	755684.400	3650829.000	244.378
124	3021 DH	Desert Holly	1.9	1.9	755685.600	3650828.000	244.216
125	3022 DH	Desert Holly	4.3	2.2	755685.000	3650832.000	244.297
126	3023 PB	Morman Tea	0.9	1.8	755684.200	3650822.000	244.369
(Sheet 4 of 59)							

Number	Plant Name	Species	Height	Width	East	North	Elevation
127	3024 CR	Creosote	1.1	0.9	755684.400	3650824.000	244.286
128	3025 DS	Brittle Bush	0.4	0.3	755684.600	3650836.000	244.967
129	3026 TS	Desert Sage	2.3	1.9	755685.300	3650836.000	244.214
130	3026 TS	Desert Sage	0.9	1.5	755687.100	3650836.000	244.227
131	3028 DH	Desert Holly	1.3	1.9	755688.500	3650837.000	245.016
132	3029 DH	Desert Holly	1.5	1.8	755685.800	3650833.000	244.112
133	3030 DH	Desert Holly	0.9	1.7	755687.100	3650834.000	243.998
134	3030 DH	Desert Holly	1.8	2.2	755687.400	3650831.000	244.128
135	3032 TS	Desert Sage	0.8	2.1	755688.100	3650832.000	244.033
136	3033 DS	Brittle Bush	0.5	0.6	755688.300	3650834.000	244.317
137	3034 DH	Desert Holly	0.5	0.7	755689.300	3650834.000	244.280
138	3035 DH	Desert Holly	0.9	0.9	755690.400	3650836.000	244.184
139	3036 DH	Desert Holly	0.9	0.9	755692.300	3650834.000	244.192
140	3037 DG	Yellow Flower???	0.6	0.9	755691.300	3650833.000	244.180
141	3038 DH	Desert Holly	0.4	0.5	755692.200	3650831.000	244.264
142	3039 DH	Desert Holly	0.4	0.7	755689.400	3650826.000	244.222
143	3040 DH	Desert Holly	1.2	0.8	755689.800	3650825.000	244.436
144	3041 CR	Creosote	0.9	1.3	755695.100	3650827.000	244.295
145	3042 CR	Creosote	0.9	0.9	755694.600	3650831.000	244.413
146	3043 CR	Creosote	1.1	0.7	755694.000	3650833.000	244.283
147	3044 DS	Brittle Bush	1.1	0.8	755693.300	3650836.000	244.350
148	3045 DH	Desert Holly	0.9	0.9	755693.800	3650837.000	244.364
149	3046 DW	Deadwood	1.5	0.4	755696.300	3650837.000	244.220
150	3047 DW	Deadwood	0.8	0.2	755696.800	3650830.000	244.404
151	3048 CR	Creosote	3.1	2.0	755845.600	3650863.000	244.435
152	3049 CR	Creosote	2.4	1.6	755830.100	3650854.000	244.335
153	3050 CR	Creosote	1.9	2.2	755842.300	3650846.00	244.457
154	3051 CR	Creosote	1.2	1.0	755848.400	3650865.000	244.275
155	3052 DW	Deadwood	1.6	1.6	755863.600	3650862.000	245.396
156	3053 DH	Desert Holly	1.3	1.3	755863.600	3650864.000	245.515
157	3054 DH	Desert Holly	1.3	1.4	755864.200	3650865.000	245.462
(Sheet 5 of 59)							

Number	Plant Name	Species	Height	Width	East	North	Elevation
158	3055 DH	Desert Holly	1.1	0.9	755865.100	3650867.000	245.495
159	3056 CC	Catclaw	7.3	6.6	755862.700	3650867.000	245.441
160	3057 DH	Desert Holly	1.3	1.2	755864.900	3650868.000	245.107
161	3058 CR	Creosote	2.2	2.1	755870.300	3650870.000	245.360
162	3059 CR	Creosote	2.0	1.4	755866.400	3650865.000	245.495
163	3060 CR	Creosote	1.2	0.9	755869.600	3650865.000	245.455
164	3061 CR	Creosote	1.5	1.3	755872.300	3650866.000	245.619
165	3062 CR	Creosote	2.4	1.6	755872.200	3650862.000	245.505
166	3063 CR	Creosote	2.2	1.8	755867.600	3650859.000	245.450
167	3064 FF	Creosote	0.9	0.8	755876.400	3650868.000	245.615
168	3065 FF	Creosote	0.6	0.8	755875.800	3650871.000	245.617
169	3068 FF	Creosote	0.8	0.8	755877.900	3650874.000	245.465
170	3069 FF	Creosote	0.8	0.6	755878.800	3650874.000	245.434
171	3070 DS	Brittle Bush	0.4	0.6	755879.200	3650875.000	245.421
172	3071 DS	Brittle Bush	0.8	0.8	755879.800	3650875.000	245.441
173	3072 DS	Brittle Bush	1.0	0.8	755880.400	3650875.000	245.441
174	3073 DS	Brittle Bush	1.9	1.2	755881.800	3650876.000	245.258
175	3074 DW	Deadwood	1.3	0.2	755879.700	3650872.000	245.693
176	3075 DW	Deadwood	2.0	1.4	755881.500	3650874.000	245.821
177	3076 CR	Creosote	2.0	1.6	755883.300	3650872.000	245.770
178	3077 CR	Creosote	2.6	1.7	755884.800	3650874.000	245.877
179	3078 DS	Brittle Bush	0.6	0.6	755885.100	3650877.000	245.445
180	3079 WB	White Burr Sage	1.3	0.6	755884.600	3650878.000	245.412
181	3080 DS	Brittle Bush	1.2	0.7	755885.800	3650880.000	245.011
182	3081 DS	Brittle Bush	1.2	1.4	755886.800	3650880.000	245.295
183	3082 DS	Brittle Bush	1.6	0.8	755888.100	3650881.000	245.289
184	3083 CR	Creosote	2.6	1.9	755888.000	3650879.000	245.713
185	3084 CR	Creosote	1.0	1.0	755890.400	3650874.000	245.718
186	3085 CR	Creosote	1.0	1.0	755891.400	3650874.000	245.770
187	3086 CR	Creosote	0.9	0.9	755893.900	3650879.000	245.794
188	3087 CR	Creosote	0.8	0.7	755895.200	3650879.000	245.792
(Sheet 6 of 59)							



Number	Plant Name	Species	Height	Width	East	North	Elevation
189	3088 CR	Creosote	1.7	1.4	755892.900	3650882.000	245.878
190	3089 CR	Creosote	1.6	1.4	755894.600	3650883.000	246.030
191	3090 CR	Creosote	1.0	0.7	755900.000	3650881.000	245.785
192	3091 CR	Creosote	0.7	1.0	755898.600	3650883.000	245.911
193	3092 CR	Creosote	1.3	1.5	755898.600	3650885.000	246.025
194	3093 CR	Creosote	2.0	1.3	755900.300	3650888.000	246.065
195	3094 CR	Creosote	1.4	1.2	755902.500	3650889.000	246.021
196	3095 DH	Desert Holly	3.2	2.0	755900.200	3650890.000	245.808
197	3096 CC	Catclaw	6.8	6.0	755894.600	3650886.000	245.524
198	3097 DH	Desert Holly	2.0	2.8	755894.400	3650889.000	245.073
199	3098 CR	Creosote	1.0	0.8	755904.300	3650884.000	245.912
200	3099 DS	Brittle Bush	0.6	0.4	755899.900	3650881.000	245.812
201	3100 CR	Creosote	1.2	1.2	755881.200	3650868.000	245.552
202	3101 CR	Creosote	0.8	0.7	755881.300	3650866.000	245.582
203	3102 WB	White Burr Sage	1.2	0.5	755795.400	3650815.000	244.518
204	3103 WB	White Burr Sage	1.2	0.5	755793.600	3650815.000	244.400
205	3104 CR	Creosote	2.4	2.4	755791.300	3650822.000	244.605
206	3105 CR	Creosote	2.6	2.4	755790.200	3650821.000	244.722
207	3106 DG	Yellow Flower???	0.7	0.6	755789.400	3650821.000	244.637
208	3107 CR	Creosote	1.9	1.5	755787.500	3650818.000	244.805
209	3108 CR	Creosote	1.9	1.9	755785.900	3650818.000	244.874
210	3109 DH	Desert Holly	2.7	2.1	755784.400	3650818.000	244.616
211	3110 DG	Yellow Flower???	0.8	0.6	755783.000	3650817.000	244.526
212	3111 DG	Yellow Flower???	0.8	0.9	755782.600	3650816.000	244.484
213	3112 CR	Creosote	1.6	1.8	755785.900	3650817.000	244.674
214	3113 DG	Yellow Flower???	0.4	0.4	755786.400	3650815.000	244.492
215	3114 PB	Morman Tea	1.5	0.8	755789.400	3650815.000	244.299
216	3115 CR	Creosote	1.1	1.0	755790.800	3650813.000	244.554
217	3116 CR	Creosote	1.1	0.9	755791.700	3650814.000	244.493
218	3117 DG	Yellow Flower???	1.3	1.1	755791.800	3650813.000	244.246
219	3118 WB	White Burr Sage	1.2	0.8	755792.400	3650812.000	244.397
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Number	Plant Name	Species	Height	Width	East	North	Elevation
220	3119 CR	Creosote	1.9	1.3	755790.400	3650809.000	244.642
221	3120 WB	White Burr Sage	1.1	0.6	755789.000	3650811.000	244.438
222	3121 WB	White Burr Sage	1.0	0.5	755787.800	3650811.000	244.439
223	3122 CR	Creosote	0.8	0.6	755785.000	3650811.000	244.260
224	3123 CR	Creosote	2.1	1.0	755784.800	3650809.000	244.478
225	3124 CR	Creosote	1.2	1.2	755797.300	3650897.000	245.872
226	3125 WB	White Burr Sage	0.8	0.4	755799.300	3650796.000	246.224
227	3126 CR	Creosote	1.0	0.3	755794.600	3650797.000	245.481
228	3127 WB	White Burr Sage	0.4	0.3	755794.300	3650797.000	245.437
229	3128 CR	Creosote	1.2	0.8	755789.300	3650798.000	245.010
230	3129 CR	Creosote	2.0	1.1	755785.200	3650806.000	244.331
231	3130 DG	Yellow Flower???	1.6	0.9	755782.200	3650808.000	244.264
232	3131 CR	Creosote	3.3	1.8	755779.800	3650812.000	244.551
233	3132 CR	Creosote	2.9	1.8	755779.600	3650810.000	244.579
234	3133 DH	Desert Holly	2.0	2.0	755776.300	3650812.000	244.351
235	3134 DG	Yellow Flower???	1.1	0.9	755776.600	3650810.000	244.199
236	3135 CR	Creosote	2.2	1.7	755777.000	3650809.000	244.540
237	3136 CR	Creosote	1.2	1.4	755776.900	3650808.000	244.481
238	3137 DG	Yellow Flower???	0.3	0.5	755775.400	3650808.000	244.242
239	3138 DG	Yellow Flower???	0.8	0.7	755779.200	3650804.000	244.295
240	3139 CR	Creosote	1.0	0.8	755778.600	3650804.000	244.297
241	3140 CR	Creosote	1.8	1.5	755777.800	3650803.000	244.306
242	3141 PB	Morman Tea	0.9	0.8	755777.300	3650803.000	244.324
243	3142 PB	Morman Tea	1.7	0.8	755777.900	3650800.000	244.203
244	3143 DG	Yellow Flower???	0.8	0.6	755780.400	3650803.000	244.255
245	3144 CR	Creosote	0.9	0.9	755780.500	3650801.000	244.386
246	3145 CR	Creosote	0.9	0.6	755776.000	3650798.000	244.397
247	3146 CR	Creosote	1.3	0.7	755784.400	3650786.000	245.417
248	3147 CR	Creosote	1.2	0.9	755788.400	3650781.000	246.324
249	3148 CR	Creosote	1.1	0.9	755792.600	3650773.000	247.421
250	3149 CR	Creosote	1.3	0.4	755786.400	3650773.000	246.300
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Number	Plant Name	Species	Height	Width	East	North	Elevation
251	3150 WB	White Burr Sage	1.0	0.5	755785.300	3650772.000	246.315
252	3151 CR	Creosote	1.3	1.1	755776.000	3650781.000	244.880
253	3152 CR	Creosote	1.4	1.4	755776.200	3650784.000	244.544
254	3153 WB	White Burr Sage	0.5	0.4	755777.200	3650784.000	244.651
255	3154 WB	White Burr Sage	1.6	1.0	755771.600	3650794.000	244.136
256	3155 PB	Morman Tea	1.2	0.7	755772.300	3650795.000	244.182
257	3156 CR	Creosote	1.0	0.5	755772.200	3650796.000	244.201
258	3157 CR	Creosote	2.2	1.3	755770.400	3650797.000	244.184
259	3158 CR	Creosote	2.2	1.6	755770.400	3650795.000	244.312
260	3159 DG	Yellow Flower???	1.1	0.7	755768.200	3650794.000	244.140
261	3160 CR	Creosote	1.4	0.9	755769.000	3650800.000	244.165
262	3161 CR	Creosote	0.8	0.7	755768.900	3650802.000	244.258
263	3162 DG	Yellow Flower???	0.8	0.6	755769.400	3650802.000	244.256
264	3163 WB	White Burr Sage	0.9	0.5	755765.300	3650805.000	244.266
265	3164 DH	Desert Holly	1.8	0.6	755765.400	3650804.000	244.383
266	3165 CC	Catclaw	7.5	5.8	755764.800	3650802.000	244.359
267	3166 CR	Creosote	1.6	0.9	755763.300	3650799.000	244.288
268	3167 CR	Creosote	2.6	1.1	755764.400	3650798.000	244.281
269	3168 DW	Deadwood	1.8	3.6	755765.400	3650796.000	244.178
270	3169 DG	Yellow Flower???	0.4	0.4	755765.400	3650796.000	244.102
271	3170 DG	Yellow Flower???	0.5	0.8	755764.300	3650793.000	243.950
272	3171 DH	Desert Holly	1.7	1.2	755762.600	3650794.000	244.289
273	3172 CR	Creosote	2.1	0.8	755761.100	3650793.000	244.402
274	3173 CR	Creosote	3.6	2.0	755759.300	3650791.000	244.282
275	3174 CR	Creosote	2.6	1.7	755764.300	3650791.000	244.155
276	3175 DH	Desert Holly	0.8	0.5	755763.300	3650790.000	244.201
277	3176 DH	Desert Holly	0.7	1.1	755764.500	3650788.000	244.069
278	3177 DG	Yellow Flower???	1.0	0.6	755768.000	3650787.000	244.124
279	3178 CR	Creosote	0.7	0.5	755766.200	3650786.000	244.108
280	3179 DH	Desert Holly	1.9	1.4	755764.300	3650785.000	244.050
281	3180 CR	Creosote	1.2	0.8	755764.900	3650782.000	244.195
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Number	Plant Name	Species	Height	Width	East	North	Elevation
282	3181 CR	Creosote	1.1	1.0	755764.800	3650781.000	244.289
283	3182 CR	Creosote	1.6	0.9	755762.800	3650782.000	244.028
284	3183 WB	White Burr Sage	0.8	0.4	755761.600	3650782.000	243.939
285	3184 DG	Yellow Flower???	0.6	0.5	755761.300	3650781.000	244.030
286	3185 DS	Brittle Bush	0.9	1.2	755759.400	3650789.000	244.099
287	3186 FF	Creosote	1.1	0.8	755760.800	3650787.000	243.951
288	3187 FF	Creosote	0.8	0.8	755759.200	3650785.000	243.926
289	3188 DG	Yellow Flower???	0.9	0.9	755758.400	3650785.000	244.075
290	3189 PB	Morman Tea	0.9	0.7	755757.700	3650789.000	244.123
291	3190 CR	Creosote	2.9	2.3	755758.900	3650787.000	244.065
292	3191 DG	Yellow Flower???	0.6	0.8	755755.800	3650784.000	244.071
293	3192 DG	Yellow Flower???	0.6	0.5	755754.800	3650784.000	243.953
294	3193 DG	Yellow Flower???	1.3	0.8	755756.300	3650783.000	244.052
295	3194 CR	Creosote	2.5	1.3	755758.700	3650779.000	244.101
296	3195 CR	Creosote	1.8	1.0	755753.800	3650779.000	243.898
297	3196 CR	Creosote	2.4	1.1	755754.600	3650774.000	244.116
298	3197 PB	Morman Tea	1.3	1.0	755750.000	3650778.000	243.903
299	3198 DH	Desert Holly	2.0	2.3	755749.500	3650776.000	243.854
300	3199 DH	Desert Holly	1.2	1.4	755748.100	3650775.000	243.941
301	3200 CR	Creosote	2.4	1.8	755748.800	3650774.000	244.102
302	3201 DW	Deadwood	0.9	0.9	755747.300	3650772.000	244.085
303	3202 CC	Catclaw	6.0	4.8	755751.700	3650770.000	244.049
304	3203 CR	Creosote	1.8	1.6	755748.800	3650767.000	243.911
305	3204 CC	Catclaw	7.3	4.8	755744.900	3650764.000	243.851
306	3205 CR	Creosote	3.6	2.0	755741.400	3650763.000	243.946
307	3206 DG	Yellow Flower???	2.1	0.9	755743.400	3650769.000	243.951
308	3207 GB	Grey Bush???	1.3	0.8	755743.800	3650770.000	243.999
309	3208 CR	Creosote	1.6	1.6	755752.500	3650767.000	244.201
310	3209 CR	Creosote	1.5	0.8	755744.900	3650756.000	243.895
311	3210DG	Yellow Flower???	0.4	0.4	755743.300	3650759.000	243.778
312	3211 DG	Yellow Flower???	0.6	0.7	755741.600	3650758.000	243.700
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Number	Plant Name	Species	Height	Width	East	North	Elevation
313	3212 DG	Yellow Flower???	2.6	1.5	755738.800	3650758.000	243.711
314	3213 CR	Creosote	1.7	1.5	755736.800	3650756.000	243.749
315	3214 CR	Creosote	1.9	1.5	755736.400	3650755.000	243.794
316	3215 DH	Desert Holly	1.5	1.3	755735.800	3650752.000	243.787
317	317 CR	Creosote	1.5	3.0	756457.800	3650881.000	249.400
318	100 CR	Creosote	1.3	1.8	756414.100	3650809.000	249.000
319	101 DS	Brittle Bush	0.7	1.3	756025.100	3650876.000	248.800
320	103 CR	Creosote	1.0	1.4	755986.200	3650839.000	249.200
321	104 CR	Creosote	1.0	1.0	756450.200	3650860.000	249.200
322	105 CR	Creosote	1.4	1.7	756453.100	3650861.000	249.200
323	106 DS	Brittle Bush	0.8	1.3	756452.800	3650864.000	249.300
324	112 DS	Brittle Bush	0.6	1.0	756476.200	3650896.000	248.700
325	113 DS	Brittle Bush	0.6	1.0	756476.800	3650896.000	249.000
326	114 CR	Creosote	1.2	2.5	756477.100	3650895.000	249.100
327	1000 YP	Yellow Paloverde	3.8	5.9	756467.300	3650888.000	250.696
328	1001 DS	Brittle Bush	0.6	1.4	756469.400	3650887.000	250.745
329	1002 CR	Creosote	1.0	1.6	756467.900	3650883.000	250.999
330	1003 WB	White Burr Sage	0.5	0.7	756464.800	3650883.000	250.784
331	1004 CR	Creosote	1.3	2.4	756464.400	3650879.000	251.124
332	1005 WB	White Burr Sage	0.6	0.9	756462.400	3650880.000	250.752
333	1006 CR	Creosote	0.7	0.8	756461.800	3650877.000	250.993
334	1007 CR	Creosote	1.1	1.8	756462.300	3650875.000	251.124
335	1008 CR	Creosote	1.1	1.3	756460.600	3650876.000	250.913
336	1009 CR	Creosote	1.0	1.8	756458.100	3650876.000	250.743
337	1010 CR	Creosote	1.0	1.6	756457.600	3650875.000	251.013
338	1011 CR	Creosote	1.0	1.6	756456.500	3650874.000	250.895
339	1012 WB	White Burr Sage	0.8	1.0	756455.800	3650875.000	250.600
340	1013 DS	Brittle Bush	1.0	1.2	756453.900	3650876.000	250.645
341	1014 CR	Creosote	1.8	2.2	756453.300	3650877.000	250.752
342	1015 CR	Creosote	1.7	2.4	756452.200	3650878.000	250.766
343	1016 WB	White Burr Sage	0.3	0.8	756451.700	3650878.000	250.678
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Number	Plant Name	Species	Height	Width	East	North	Elevation
344	1017 WB	White Burr Sage	0.7	1.1	756450.100	3650880.000	250.807
345	1018 WB	White Burr Sage	0.6	1.4	756449.900	3650881.000	250.827
346	1019 CR	Creosote	1.1	1.2	756450.100	3650882.000	250.685
347	1020 DW	Deadwood	1.5	2.2	756452.200	3650882.000	250.726
348	1021 DS	Brittle Bush	0.9	1.4	756454.300	3650881.000	250.645
349	1022 WB	White Burr Sage	0.6	1.0	756458.000	3650880.000	250.669
350	1023 WB	White Burr Sage	0.5	0.7	756461.100	3650883.000	250.721
351	1024 CR	Creosote	1.4	1.8	756460.900	3650884.000	250.814
352	1025 CR	Creosote	1.0	1.4	756455.100	3650886.000	250.966
353	1026 CR	Creosote	1.1	1.3	756454.800	3650887.000	250.889
354	1027 CR	Creosote	0.8	1.1	756454.400	3650887.000	250.792
355	1028 WB	White Burr Sage	0.6	0.8	756462.900	3650885.000	250.731
356	1029 WB	White Burr Sage	0.5	0.9	756463.600	3650886.000	250.737
357	1030 CR	Creosote	1.3	2.1	756464.000	3650886.000	250.775
358	1031 CR	Creosote	1.8	1.5	756464.300	3650887.000	250.837
359	1032 DS	Brittle Bush	0.9	1.2	756467.200	3650888.000	250.658
360	1033 DS	Brittle Bush	1.1	1.2	756468.400	3650888.000	250.661
361	1034 DS	Brittle Bush	0.7	0.8	756464.900	3650889.000	250.961
362	1035 DS	Brittle Bush	0.7	1.2	756465.900	3650889.000	250.773
363	1036 DS	Brittle Bush	0.6	1.3	756468.900	3650891.000	250.914
364	1037 DS	Brittle Bush	0.6	0.5	756469.400	3650889.000	250.855
365	1038 WB	White Burr Sage	0.6	0.6	756470.400	3650887.000	250.746
366	1039 WB	White Burr Sage	0.5	0.8	756471.800	3650890.000	250.857
367	1040 WB	White Burr Sage	0.3	0.6	756472.400	3650891.000	250.878
368	1041 CR	Creosote	1.2	1.9	756473.600	3650892.000	250.915
369	1042 WB	White Burr Sage	0.5	0.8	756473.600	3650891.000	250.875
370	1043 WB	White Burr Sage	0.6	0.6	756473.100	3650891.000	250.827
371	1044 CR	Creosote	1.7	1.9	756467.100	3650892.000	250.959
372	1045 WB	White Burr Sage	0.4	0.4	756490.500	3650876.000	251.384
373	1046 CR	Creosote	0.8	2.3	756500.300	3650881.000	251.540
374	1047 CR	Creosote	0.9	0.9	756497.500	3650889.000	251.739
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Number	Plant Name	Species	Height	Width	East	North	Elevation
375	1048 CR	Creosote	1.0	1.6	756512.100	3650893.000	251.822
376	1049 DS	Brittle Bush	0.5	0.8	756551.500	3650908.000	252.540
377	1050 CR	Creosote	0.5	1.0	756551.300	3650904.000	252.454
378	1051 CR	Creosote	0.9	1.9	756579.500	3650920.000	252.612
379	1052 WB	White Burr Sage	0.4	0.6	756580.700	3650917.000	252.502
380	1053 WB	White Burr Sage	0.4	0.6	756578.500	3650914.000	252.516
381	1054 GB	Grey Bush???	0.5	1.2	756578.400	3650913.000	252.493
382	1055 CR	Creosote	0.5	0.9	756577.600	3650912.000	252.480
383	1056 WB	White Burr Sage	0.3	0.7	756575.900	3650914.000	252.526
384	1057 WB	White Burr Sage	0.5	0.8	756574.600	3650912.000	252.503
385	1058 WB	White Burr Sage	0.4	0.5	756575.300	3650909.000	252.459
386	1059 CR	Creosote	0.8	1.6	756572.600	3650908.000	252.482
387	1060 CR	Creosote	0.9	1.5	756572.100	3650906.000	252.425
388	1061 WB	White Burr Sage	0.4	0.7	756574.100	3650905.000	252.459
389	1062 WB	White Burr Sage	0.5	0.8	756571.800	3650905.000	252.394
390	1063 WB	White Burr Sage	0.3	0.6	756572.800	3650902.000	252.363
391	1064 WB	White Burr Sage	0.3	0.7	756572.400	3650901.000	252.378
392	1065 OC	Octilla	4.0	2.2	756571.600	3650901.000	252.336
393	1066 WB	White Burr Sage	0.4	0.6	756571.200	3650901.000	252.329
394	1067 CR	Creosote	1.0	1.7	756571.000	3650901.000	252.311
395	1068 WB	White Burr Sage	0.6	1.0	756568.100	3650900.000	252.297
396	1069 CR	Creosote	1.1	2.3	756567.800	3650901.000	252.449
397	1070 WB	White Burr Sage	0.4	0.8	756566.900	3650897.000	252.237
398	1071 WB	White Burr Sage	0.5	0.8	756567.400	3650896.000	252.268
399	1072 WB	White Burr Sage	0.5	0.8	756564.900	3650897.000	252.266
400	1073 CR	Creosote	0.9	1.8	756564.400	3650898.000	252.288
401	1074 WB	White Burr Sage	0.4	0.8	756562.700	3650896.000	252.256
402	1075 CR	Creosote	0.8	1.7	756561.100	3650896.000	252.265
403	1076 WB	White Burr Sage	0.5	0.7	756562.400	3650893.000	252.200
404	1077 WB	White Burr Sage	0.4	0.7	756561.600	3650892.000	252.193
405	1078 WB	White Burr Sage	0.5	0.6	756560.200	3650892.000	252.158
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Number	Plant Name	Species	Height	Width	East	North	Elevation
406	1079 DW	Deadwood	1.2	1.2	756559.200	3650895.000	252.256
407	1080 WB	White Burr Sage	0.5	0.8	756558.300	3650893.000	252.233
408	1081 WB	White Burr Sage	0.4	0.7	756558.400	3650891.000	252.227
409	1082 CR	Creosote	0.7	1.5	756556.200	3650888.000	252.152
410	1083 WB	White Burr Sage	0.6	0.8	756556.000	3650889.000	252.171
411	1084 CR	Creosote	0.8	1.4	756554.400	3650891.000	252.162
412	1085 CR	Creosote	0.8	1.9	756554.100	3650890.000	252.097
413	1086 WB	White Burr Sage	0.4	0.5	756553.300	3650887.000	252.073
414	1087 WB	White Burr Sage	0.5	0.9	756550.400	3650888.000	252.049
415	1088 CR	Creosote	0.9	1.9	756551.400	3650885.000	252.203
416	1089 CR	Creosote	0.9	1.8	756550.600	3650884.000	252.292
417	1090 CR	Creosote	1.0	1.9	756550.100	3650883.000	252.285
418	1091 OC	Octilla	3.8	3.1	756547.900	3650885.000	251.959
419	1092 WB	White Burr Sage	0.4	0.4	756548.100	3650885.000	252.012
420	1093 WB	White Burr Sage	0.4	0.4	756546.200	3650884.000	251.970
421	1094 WB	White Burr Sage	0.4	0.5	756544.700	3650884.000	251.957
422	1095 WB	White Burr Sage	0.4	0.6	756543.500	3650884.000	252.015
423	1096 WB	White Burr Sage	0.4	0.8	756544.200	3650886.000	251.975
424	1097 OC	Octilla	0.7	0.6	756543.700	3650884.000	251.930
425	1098 CR	Creosote	0.5	1.0	756542.600	3650883.000	252.055
426	1099 OC	Octilla	4.0	2.3	756541.400	3650882.000	252.069
427	1100 CR	Creosote	1.0	1.9	756540.900	3650882.000	252.009
428	1101 WB	White Burr Sage	0.4	0.9	756540.300	3650884.000	251.916
429	1102 WB	White Burr Sage	0.4	0.6	756541.700	3650886.000	251.921
430	1103 CR	Creosote	1.0	1.2	756540.800	3650887.000	252.040
431	1104 CR	Creosote	0.8	1.7	756539.900	3650886.000	251.987
432	1105 WB	White Burr Sage	0.5	0.7	756540.000	3650886.000	251.950
433	1106 WB	White Burr Sage	0.6	0.7	756538.400	3650885.000	251.901
434	1107 WB	White Burr Sage	0.4	0.6	756538.000	3650882.000	251.905
435	1108 WB	White Burr Sage	0.3	0.4	756537.500	3650881.000	251.875
436	1109 WB	White Burr Sage	0.4	0.5	756535.600	3650883.000	251.863
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Number	Plant Name	Species	Height	Width	East	North	Elevation
437	1110 WB	White Burr Sage	0.3	0.5	756534.600	3650884.000	251.851
438	1111 WB	White Burr Sage	0.4	0.8	756535.900	3650880.000	251.880
439	1112 CR	Creosote	0.8	1.5	756535.300	3650880.000	251.884
440	1113 WB	White Burr Sage	0.5	0.8	756533.500	3650879.000	251.844
441	1114 CR	Creosote	1.1	1.5	756533.600	3650877.000	252.070
442	1115 CR	Creosote	0.8	1.4	756533.200	3650877.000	252.044
443	1116 CR	Creosote	1.1	2.1	756532.800	3650875.000	252.062
444	1117 DS	Brittle Bush	0.7	1.1	756530.900	3650877.000	251.744
445	1118 YP	Yellow Paloverde	2.4	3.0	756530.100	3650877.000	251.718
446	1119 CR	Creosote	1.0	1.7	756530.100	3650879.000	251.796
447	1120 DS	Brittle Bush	0.9	1.1	756529.800	3650878.000	251.775
448	1121 WB	White Burr Sage	0.3	0.6	756528.500	3650878.000	251.775
449	1122 WB	White Burr Sage	0.4	0.7	756527.600	3650876.000	251.712
450	1123 WB	White Burr Sage	0.5	1.0	756528.400	3650876.000	251.765
451	1124 B3	Green Bush???	1.1	1.5	756530.300	3650877.000	251.670
452	1125 DS	Brittle Bush	0.8	1.6	756528.600	3650873.000	251.676
453	1126 CR	Creosote	0.9	1.4	756528.100	3650872.000	251.719
454	1127 WB	White Burr Sage	0.6	0.8	756528.300	3650872.000	251.717
455	1128 WB	White Burr Sage	0.5	0.9	756525.800	3650872.000	251.706
456	1129 WB	White Burr Sage	0.5	1.0	756525.800	3650870.000	251.646
457	1130 WB	White Burr Sage	0.5	1.2	756528.100	3650869.000	251.707
458	1131 WB	White Burr Sage	0.4	1.1	756526.600	3650868.000	251.633
459	1132 WB	White Burr Sage	0.3	0.6	756527.100	3650872.000	251.664
460	1133 CR	Creosote	0.7	2.2	756530.300	3650867.000	251.803
461	1134 WB	White Burr Sage	0.4	0.8	756530.100	3650865.000	251.712
462	1135 WB	White Burr Sage	0.4	0.6	756531.900	3650865.000	251.767
463	1136 WB	White Burr Sage	0.4	0.6	756534.100	3650864.000	251.788
464	1137 CR	Creosote	0.7	1.8	756535.600	3650865.000	251.850
465	1138 CR	Creosote	0.9	1.6	756536.300	3650865.000	251.816
466	1139 B4	Hibiscus Denudatus	0.8	0.9	756538.500	3650864.000	251.821
467	1140 B4	Hibiscus Denudatus	0.6	0.6	756539.800	3650865.000	251.826

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Number	Plant Name	Species	Height	Width	East	North	Elevation
468	1141 WB	White Burr Sage	0.5	1.0	756543.600	3650869.000	251.971
469	1142 WB	White Burr Sage	0.4	0.9	756546.400	3650868.000	252.029
470	1143 WB	White Burr Sage	0.4	1.1	756546.800	3650870.000	251.984
471	1144 WB	White Burr Sage	0.4	0.9	756548.800	3650870.000	252.041
472	1145 B4	Hibiscus Denudatus	0.8	0.7	756550.000	3650872.000	252.016
473	1146 WB	White Burr Sage	0.4	0.7	756549.800	3650872.000	252.004
474	1147 WB	White Burr Sage	0.3	0.5	756548.800	3650872.000	252.027
475	1148 WB	White Burr Sage	0.4	0.7	756551.000	3650873.000	252.076
476	1149 WB	White Burr Sage	0.4	0.7	756551.600	3650875.000	252.123
477	1150 WB	White Burr Sage	0.4	0.7	756557.100	3650876.000	252.172
478	1151 CR	Creosote	1.1	2.1	756522.500	3650865.00	251.616
479	1152 DS	Brittle Bush	0.9	1.7	756521.200	3650867.000	251.510
480	1153 WB	White Burr Sage	0.4	0.7	756520.900	3650867.000	251.592
481	1154 DS	Brittle Bush	0.6	1.2	756515.900	3650865.000	251.496
482	1155 WB	White Burr Sage	0.5	1.1	756517.100	3650865.000	251.572
483	1156 WB	White Burr Sage	0.6	1.3	756516.400	3650864.000	251.535
484	1157 CR	Creosote	1.0	1.8	756521.400	3650862.000	251.688
485	1158 CR	Creosote	0.7	1.5	756521.800	3650861.000	251.700
486	1159 CR	Creosote	0.6	1.1	756520.500	3650861.000	251.704
487	1160 CR	Creosote	0.8	1.5	756519.600	3650860.000	251.714
488	1161 CR	Creosote	0.8	1.5	756519.100	3650861.000	251.672
489	1162 CR	Creosote	1.1	2.2	756516.200	3650861.000	251.649
490	1163 B4	Hibiscus Denudatus	0.9	1.3	756513.900	3650862.000	251.315
491	1164 DS	Brittle Bush	0.8	1.1	756513.300	3650862.000	251.473
492	1165 CR	Creosote	0.9	2.0	756512.700	3650863.000	251.481
493	1166 CR	Creosote	1.0	1.5	756511.900	3650862.000	251.525
494	1167 CR	Creosote	0.7	1.7	756513.600	3650859.000	251.463
495	1168 GB	Grey Bush???	0.7	1.6	756516.300	3650858.000	251.521
496	1169 CR	Creosote	1.0	1.5	756514.100	3650854.000	251.521
497	1170 WB	White Burr Sage	0.4	0.8	756511.900	3650858.000	251.426
498	1171 DS	Brittle Bush	0.7	1.2	756510.600	3650858.000	251.363
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Number	Plant Name	Species	Height	Width	East	North	Elevation
499	1172 WB	White Burr Sage	0.4	0.6	756508.300	3650857.000	251.408
500	1173 OC	Octilla	5.3	1.8	756508.000	3650856.000	251.385
501	1174 WB	White Burr Sage	0.5	1.1	756509.300	3650855.000	251.443
502	1174 WB	White Burr Sage	0.5	1.1	756509.500	3650855.000	251.443
503	1175 WB	White Burr Sage	0.3	0.4	756508.500	3650855.000	251.347
504	1176 WB	White Burr Sage	0.4	0.8	756506.400	3650855.000	251.350
505	1177 CR	Creosote	0.8	1.5	756510.200	3650851.000	251.546
506	1178 CR	Creosote	0.7	1.2	756509.300	3650851.000	251.429
507	1179 CR	Creosote	0.6	1.4	756505.400	3650848.000	251.476
508	1180 WB	White Burr Sage	0.4	0.7	756505.100	3650851.000	251.334
509	1181 WB	White Burr Sage	0.4	0.7	756503.600	3650852.000	251.390
510	1182 CR	Creosote	1.2	1.9	756503.300	3650853.000	251.404
511	1183 CR	Creosote	1.2	1.9	756503.400	3650854.000	251.421
512	1184 WB	White Burr Sage	0.5	1.1	756501.700	3650850.000	251.327
513	1185 CR	Creosote	1.2	1.8	756501.100	3650850.000	251.321
514	1186 WB	White Burr Sage	0.6	0.9	756500.900	3650848.000	251.187
515	1187 CR	Creosote	1.0	1.6	756499.700	3650850.000	251.346
516	1188 YP	Yellow Paloverde	2.8	2.3	756498.100	3650849.000	251.189
517	1189 WB	White Burr Sage	0.6	1.3	756499.100	3650847.000	251.249
518	1190 WB	White Burr Sage	0.4	1.0	756496.400	3650847.000	251.255
519	1191 WB	White Burr Sage	0.3	0.5	756496.400	3650849.000	251.117
520	1192 WB	White Burr Sage	0.3	0.5	756496.900	3650850.000	251.230
521	1193 CR	Creosote	1.1	1.5	756493.400	3650846.000	251.314
522	1194 WB	White Burr Sage	0.7	0.9	756492.900	3650846.000	251.345
523	1195 CR	Creosote	1.1	1.4	756492.900	3650845.000	251.298
524	1196 WB	White Burr Sage	0.5	0.6	756490.600	3650845.000	251.142
525	1197 WB	White Burr Sage	0.6	0.7	756491.200	3650846.000	251.150
526	1198 WB	White Burr Sage	0.5	0.6	756492.300	3650846.000	251.254
527	1199 GB	Grey Bush???	0.5	1.5	756492.100	3650848.000	251.221
528	1200 CR	Creosote	0.7	1.2	756491.900	3650850.000	251.176
529	1201 CR	Creosote	0.9	0.9	756491.300	3650849.000	251.198
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Number	Plant Name	Species	Height	Width	East	North	Elevation
530	1202 CR	Creosote	0.9	0.8	756491.300	3650850.000	251.177
531	1203 CR	Creosote	1.0	1.9	756488.600	3650851.000	251.123
532	1204 WB	White Burr Sage	0.4	0.7	756490.300	3650854.000	251.201
533	1204 WB	White Burr Sage	0.4	0.7	756490.700	3650855.000	251.201
534	1206 WB	White Burr Sage	0.6	1.1	756490.600	3650857.000	251.344
535	1207 WB	White Burr Sage	0.3	0.5	756492.800	3650858.000	251.305
536	1208 WB	White Burr Sage	0.4	0.6	756486.500	3650851.000	251.153
537	1209 GB	Grey Bush???	0.4	0.9	756489.100	3650849.000	251.139
538	1210 WB	White Burr Sage	0.6	1.0	756490.400	3650847.000	251.159
539	1211 WB	White Burr Sage	0.5	0.8	756489.000	3650845.000	251.059
540	1212 WB	White Burr Sage	0.6	0.8	756488.100	3650844.000	251.065
541	1213 CR	Creosote	0.9	1.8	756487.000	3650846.000	251.240
542	1214 CR	Creosote	0.6	1.2	756487.000	3650847.000	251.224
543	1215 CR	Creosote	0.7	0.9	756486.300	3650847.000	251.195
544	1216 CR	Creosote	0.8	1.4	756483.300	3650848.000	251.111
545	1217 CR	Creosote	0.8	1.5	756479.600	3650845.000	251.084
546	1218 WB	White Burr Sage	0.4	0.8	756481.200	3650844.000	251.022
547	1219 WB	White Burr Sage	0.4	0.6	756482.600	3650845.000	251.023
548	1220 WB	White Burr Sage	0.4	0.4	756484.300	3650844.000	251.023
549	1221 WB	White Burr Sage	0.4	0.6	756482.300	3650842.000	251.020
550	1221 WB	White Burr Sage	0.4	0.6	756482.800	3650841.000	251.020
551	1223 WB	White Burr Sage	0.6	0.8	756487.600	3650842.000	250.952
552	1224 WB	White Burr Sage	0.4	0.8	756486.900	3650841.000	250.959
553	1225 WB	White Burr Sage	0.7	1.0	756487.600	3650840.000	251.047
554	1226 CR	Creosote	0.8	1.7	746486.400	3650837.000	251.015
555	1227 WB	White Burr Sage	0.7	1.0	756484.600	3650839.000	250.930
556	1228 CR	Creosote	0.8	0.9	756484.900	3650839.000	250.937
557	1229 WB	White Burr Sage	0.6	0.6	756482.600	3650837.000	250.949
558	1230 WB	White Burr Sage	0.7	0.6	756482.500	3650838.000	250.930
559	1231 GB	Grey Bush???	0.8	1.4	756482.200	3650838.000	250.900
560	1232 WB	White Burr Sage	0.6	0.7	756481.400	3650840.000	250.979
(Sheet 18 of 59)							

Number	Plant Name	Species	Height	Width	East	North	Elevation
561	1233 WB	White Burr Sage	0.6	0.8	756481.000	3650840.000	250.961
562	1234 CR	Creosote	0.9	1.2	756480.200	3650842.000	251.032
563	1235 WB	White Burr Sage	0.4	0.5	756484.100	3650835.000	250.912
564	1236 WB	White Burr Sage	0.6	0.8	756484.100	3650835.000	250.984
565	1237 CR	Creosote	0.8	1.3	756484.400	3650834.000	251.019
566	1238 WB	White Burr Sage	0.4	1.0	756483.700	3650834.000	250.943
567	1239 CR	Creosote	0.9	1.3	756484.000	3650833.000	251.020
568	1240 CR	Creosote	0.9	1.7	756484.100	3650832.000	251.072
569	1241 WB	White Burr Sage	0.4	0.7	756482.600	3650831.000	250.930
570	1242 WB	White Burr Sage	0.4	0.5	756481.100	3650833.000	250.800
571	1243 WB	White Burr Sage	0.4	0.7	756480.100	3650833.000	250.869
572	1244 WB	White Burr Sage	0.3	0.8	756479.800	3650831.000	250.831
573	1245 CR	Creosote	0.7	1.5	756481.000	3650829.000	250.890
574	1246 CR	Creosote	1.0	1.7	756479.400	3650826.000	250.959
575	1247 WB	White Burr Sage	0.7	1.4	756479.400	3650828.000	250.794
576	1248 M	Sage	0.5	0.7	756479.100	3650828.000	250.694
577	1249 CR	Creosote	0.9	1.1	756477.900	3650826.000	250.885
578	1250 CR	Creosote	0.9	0.8	756478.300	3650826.000	250.922
579	1251 WB	White Burr Sage	0.6	0.8	756476.600	3650828.000	250.798
580	1252 CR	Creosote	0.9	1.9	756476.400	3650828.000	250.871
581	1253 CR	Creosote	0.7	1.5	756468.800	3650831.000	250.875
582	1254 CR	Creosote	0.5	1.0	756461.700	3650841.000	250.951
583	1255 WB	White Burr Sage	0.5	0.8	756474.100	3650825.000	250.678
584	1256 WB	White Burr Sage	0.5	1.4	756476.100	3650825.000	250.774
585	1257 YP	Yellow Paloverde	4.9	6.1	756475.300	3650823.000	250.740
586	1258 DS	Brittle Bush	0.6	0.8	756475.900	3650823.000	250.738
587	1259 DS	Brittle Bush	0.8	1.5	756475.000	3650822.000	250.760
588	1260 WB	White Burr Sage	0.4	0.6	756469.800	3650824.000	250.728
589	1261 DS	Brittle Bush	0.7	1.2	756471.900	3650824.000	250.706
590	1262 CR	Creosote	0.8	1.1	756472.200	3650823.000	250.654
591	1263 CR	Creosote	0.6	1.4	756474.000	3650820.000	250.980
(Sheet 19 of 59)							

Number	Plant Name	Species	Height	Width	East	North	Elevation
592	1264 WB	White Burr Sage	0.4	0.5	756481.200	3650829.000	250.891
593	1265 CR	Creosote	1.2	2.2	756288.800	3650827.000	249.384
594	1266 CR	Creosote	1.5	2.8	756291.100	3650835.000	249.590
595	1267 CR	Creosote	1.4	2.0	756292.200	3650843.000	249.715
596	1268 CR	Creosote	1.4	2.0	756292.800	3650844.000	249.827
597	1269 YP	Yellow Paloverde	3.4	3.6	756295.800	3650851.000	249.822
598	1270 DW	Deadwood	0.8	3.7	756293.400	3650852.000	249.649
599	1271 CR	Creosote	1.3	2.1	756299.300	3650846.000	249.613
600	1272 CR	Creosote	0.7	1.4	756301.700	3650846.000	249.635
601	1273 CR	Creosote	0.8	1.3	756301.300	3650844.000	249.626
602	1274 CR	Creosote	1.1	1.8	756302.900	3650852.000	249.616
603	1275 CR	Creosote	0.7	1.8	756301.900	3650855.000	249.883
604	1276 CR	Creosote	1.1	1.5	756314.000	3650861.000	249.901
605	1277 CR	Creosote	0.7	1.5	756315.600	3650857.000	249.970
606	1278 CR	Creosote	1.0	2.2	756321.300	3650860.000	249.880
607	1279 CR	Creosote	1.0	2.2	756324.900	3650865.000	249.901
608	1280 CR	Creosote	0.9	1.9	756329.400	3650862.000	249.977
609	1281 CR	Creosote	1.0	1.5	756327.100	3650859.000	249.862
610	1282 CR	Creosote	1.0	1.7	756326.600	3650857.000	249.856
611	1283 CR	Creosote	1.5	2.5	756323.200	3650853.000	249.711
612	1284 CR	Creosote	0.6	1.2	756324.500	3650851.000	249.905
613	1285 CR	Creosote	0.9	0.6	756323.500	3650851.000	249.867
614	1286 CR	Creosote	0.9	0.7	756324.300	3650850.000	249.926
615	1287 CR	Creosote	0.9	1.6	756315.600	3650845.000	249.600
616	1288 DS	Brittle Bush	0.6	1.2	756318.700	3650850.000	249.511
617	1289 CR	Creosote	1.1	2.0	756321.100	3650848.000	249.781
618	1290 CR	Creosote	0.9	1.7	756319.900	3650842.000	249.754
619	1291 CR	Creosote	0.9	1.5	756318.000	3650837.000	249.709
620	1292 CR	Creosote	0.7	1.3	756315.900	3650840.000	249.527
621	1293 GB	Grey Bush???	0.7	1.2	756315.300	3650840.000	249.525
622	1294 DS	Brittle Bush	0.3	0.4	756314.300	3650842.000	249.554
(Sheet 20 of 59)							

Number	Plant Name	Species	Height	Width	East	North	Elevation
623	1295 CR	Creosote	0.9	1.2	756313.800	3650842.000	249.562
624	1296 DS	Brittle Bush	0.3	0.4	756313.100	3650841.000	249.532
625	1297 CR	Creosote	0.8	1.1	756310.300	3650843.000	249.559
626	1298 CC	Catclaw	3.2	4.1	756308.500	3650841.000	249.609
627	1299 DW	Deadwood	0.9	1.9	756308.900	3650841.000	249.581
628	1300 CR	Creosote	1.1	1.6	756312.500	3650836.000	249.529
629	1301 CR	Creosote	1.2	1.9	756310.700	3650833.000	249.562
630	1302 CR	Creosote	0.9	1.0	756311.100	3650832.000	249.575
631	1303 CR	Creosote	1.3	2.0	756307.600	3650831.000	249.494
632	1304 CR	Creosote	1.1	2.5	756307.900	3650835.000	249.484
633	1305 CR	Creosote	0.9	1.2	756304.100	3650835.000	249.512
634	1306 CR	Creosote	0.9	1.0	756304.300	3650836.000	249.557
635	1307 CR	Creosote	1.1	0.9	756304.100	3650838.000	249.547
636	1308 CR	Creosote	1.1	1.8	756297.800	3650839.000	249.588
637	1309 CR	Creosote	0.8	0.8	756296.400	3650836.000	249.545
638	1310 CC	Catclaw	4.2	4.0	756299.400	3650828.000	249.348
639	1311 DS	Brittle Bush	0.9	1.0	756298.700	3650827.000	249.285
640	1312 CR	Creosote	0.7	1.5	756294.100	3650825.000	249.397
641	1313 CR	Creosote	1.2	1.9	756298.700	3650823.000	249.309
642	1314 CR	Creosote	1.3	1.6	756309.700	3650824.000	249.418
643	1315 CR	Creosote	1.2	1.7	756310.400	3650825.000	249.463
644	1316 CR	Creosote	0.8	1.1	756315.900	3650829.000	249.646
645	1317 CR	Creosote	0.7	0.9	756318.100	3650823.000	249.630
646	1318 CR	Creosote	1.1	1.6	756321.300	3650823.000	249.654
647	1319 CR	Creosote	0.7	1.5	756323.400	3650823.000	249.598
648	1320 CR	Creosote	0.8	1.4	756324.300	3650827.000	249.871
649	1321 CR	Creosote	0.9	1.2	756324.400	3650828.000	249.794
650	1322 CR	Creosote	1.3	1.7	756328.800	3650825.000	249.615
651	1323 CR	Creosote	0.7	1.8	756330.400	3650829.000	249.619
652	1324 CR	Creosote	0.8	1.2	756326.400	3650830.000	249.710
653	1325 DS	Brittle Bush	0.6	1.1	756329.700	3650831.000	249.632
(Sheet 21 of 59)							

Number	Plant Name	Species	Height	Width	East	North	Elevation
654	1326 CR	Creosote	0.4	0.5	756330.300	3650832.000	249.634
655	1327 CR	Creosote	0.7	0.8	756327.500	3650834.000	249.724
656	1328 CR	Creosote	1.0	1.4	756328.200	3650839.000	249.762
657	1329 CR	Creosote	1.1	1.5	756332.400	3650834.000	249.734
658	1330 CR	Creosote	0.9	1.2	756332.800	3650830.000	249.737
659	1331 CR	Creosote	1.3	1.9	756334.800	3650827.000	249.741
660	1332 CR	Creosote	1.1	1.8	756336.900	3650829.000	249.876
661	1333 CR	Creosote	0.9	1.5	756335.900	3650835.000	249.874
662	1334 CR	Creosote	0.7	1.5	756336.100	3650843.000	249.934
663	1335 CR	Creosote	0.8	1.5	756337.700	3650844.000	249.929
664	1336 CR	Creosote	0.8	1.3	756336.900	3650845.000	249.933
665	1337 CR	Creosote	1.0	1.6	756334.500	3650851.000	249.843
666	1338 CR	Creosote	0.9	1.8	756336.100	3650859.000	249.953
667	1339 CR	Creosote	1.2	2.4	756326.800	3650868.000	249.983
668	1340 CR	Creosote	1.7	2.6	756334.400	3650870.000	249.876
669	1341 CR	Creosote	1.6	1.8	756335.300	3650870.000	249.893
670	1342 CR	Creosote	0.8	1.0	756338.900	3650866.000	250.045
671	1343 CR	Creosote	1.0	1.1	756345.400	3650869.000	250.025
672	1344 CR	Creosote	0.5	0.6	756344.600	3650867.000	250.055
673	1345 CR	Creosote	0.8	0.7	756343.300	3650858.000	250.080
674	1346 DW	Deadwood	0.2	2.7	756295.700	3650828.000	249.430
675	1347 CR	Creosote	0.6	1.1	756327.000	3650819.000	249.699
676	1348 CR	Creosote	0.7	1.3	756325.700	3650817.000	249.631
677	1349 CR	Creosote	0.7	1.1	756321.800	3650817.000	249.512
678	1350 WB	White Burr Sage	0.5	0.9	756407.100	3650802.000	250.160
679	1351 CR	Creosote	1.0	2.3	756407.900	3650805.000	250.193
680	1352 WB	White Burr Sage	0.4	0.8	756410.700	3650805.000	250.155
681	1353 CR	Creosote	0.5	1.6	756412.100	3650803.000	250.253
682	1354 WB	White Burr Sage	0.4	0.6	756412.200	3650804.000	250.222
683	1355 WB	White Burr Sage	0.3	0.5	756410.300	3650806.000	250.179
684	1356 WB	White Burr Sage	0.3	0.7	756409.400	3650808.000	250.212
(Sheet 22 of 59)							



Number	Plant Name	Species	Height	Width	East	North	Elevation
685	1357 DS	Brittle Bush	0.4	0.6	756411.800	3650807.000	250.194
686	1359 CR	Creosote	0.6	1.3	756416.900	3650810.000	250.268
687	1360 CR	Creosote	1.1	1.0	756421.600	3650811.000	250.297
688	1361 WB	White Burr Sage	0.5	0.9	756422.800	3650813.000	250.334
689	1362 WB	White Burr Sage	0.5	0.7	756422.700	3650815.000	250.329
690	1363 CR	Creosote	0.5	0.6	756424.800	3650814.000	250.343
691	1364 WB	White Burr Sage	0.5	0.7	756424.800	3650815.000	250.357
692	1365 WB	White Burr Sage	0.3	0.5	756426.900	3650818.000	250.406
693	1366 CR	Creosote	0.4	0.8	756425.900	3650816.000	250.350
694	1367 WB	White Burr Sage	0.5	0.8	756428.900	3650817.000	250.443
695	1368 WB	White Burr Sage	0.4	0.8	756430.000	3650818.000	250.426
696	1369 CR	Creosote	1.6	0.8	756431.800	3650817.000	250.460
697	1370 WB	White Burr Sage	0.4	0.5	756431.900	3650816.000	250.457
698	1371 CR	Creosote	0.8	1.1	756433.400	3650824.000	250.531
699	1372 WB	White Burr Sage	0.3	0.7	756434.000	3650830.000	250.623
700	1373 WB	White Burr Sage	0.4	0.7	756434.000	3650831.000	250.610
701	1374 WB	White Burr Sage	0.3	0.3	756432.900	3650831.000	250.600
702	1375 CR	Creosote	0.4	0.5	756439.200	3650837.000	250.683
703	1376 CR	Creosote	1.2	1.8	756441.500	3650836.000	250.760
704	1377 CR	Creosote	0.4	0.8	756481.600	3650813.000	250.742
705	1378 CR	Creosote	0.9	1.4	756475.600	3650806.000	250.690
706	1379 CR	Creosote	0.9	1.4	756475.900	3650804.000	250.619
707	1380 CR	Creosote	0.8	1.2	756472.600	3650797.000	250.472
708	1381 WB	White Burr Sage	0.4	0.5	756470.100	3650797.000	250.351
709	1382 CR	Creosote	1.1	1.5	756472.100	3650806.000	250.603
710	1383 GB	Grey Bush???	0.7	1.3	756460.800	3650801.000	250.542
711	1384 WB	White Burr Sage	0.5	1.2	756459.700	3650801.000	250.442
712	1385 CR	Creosote	0.9	1.5	756460.900	3650802.000	250.485
713	1386 GB	Grey Bush???	0.5	1.2	756460.700	3650802.000	250.439
714	1387 CR	Creosote	0.8	1.2	756461.400	3650804.000	250.466
715	1388 WB	White Burr Sage	0.5	1.1	756461.400	3650805.000	250.438
(Sheet 23 of 59)							

Number	Plant Name	Species	Height	Width	East	North	Elevation
716	1389 WB	White Burr Sage	0.6	0.9	756458.100	3650802.000	250.321
717	1390 CR	Creosote	1.1	1.4	756457.800	3650803.000	250.350
718	1391 WB	White Burr Sage	0.5	0.8	756458.800	3650804.000	250.330
719	1392 WB	White Burr Sage	0.6	0.8	756458.200	3650804.000	250.354
720	1393 WB	White Burr Sage	0.5	0.8	756459.300	3650806.000	250.359
721	1394 WB	White Burr Sage	0.7	1.1	756460.000	3650810.000	250.438
722	1395 CR	Creosote	1.0	1.7	756459.700	3650811.000	250.545
723	1396 GB	Grey Bush???	0.5	1.0	756459.900	3650811.000	250.594
724	1397 CR	Creosote	0.8	1.0	756459.800	3650812.000	250.593
725	1398 CR	Creosote	0.7	1.2	756464.000	3650810.000	250.680
726	1399 CR	Creosote	0.8	0.8	756464.200	3650812.000	250.522
727	1400 WB	White Burr Sage	0.5	1.1	756462.500	3650812.000	250.522
728	1401 WB	White Burr Sage	0.6	1.0	756462.100	3650813.000	250.486
729	1402 WB	White Burr Sage	0.6	0.6	756460.800	3650815.000	250.541
730	1403 WB	White Burr Sage	0.6	1.0	756460.800	3650816.000	250.565
731	1404 CC	Catclaw	3.5	4.4	756463.600	3650817.000	250.522
732	1405 CR	Creosote	1.4	2.2	756464.600	3650814.000	250.625
733	1406 DS	Brittle Bush	0.8	1.3	756463.900	3650815.000	250.553
734	1407 WB	White Burr Sage	0.4	0.5	756461.100	3650814.000	250.388
735	1408 DS	Brittle Bush	0.7	0.8	756465.800	3650816.000	250.623
736	1409 DS	Brittle Bush	0.6	2.1	756464.600	3650818.000	250.585
737	1410 DS	Brittle Bush	0.7	0.9	756463.200	3650817.000	250.412
738	1411 WB	White Burr Sage	0.2	0.7	756460.400	3650818.000	250.672
739	1412 WB	White Burr Sage	0.4	0.7	756461.600	3650820.000	250.691
740	1413 CR	Creosote	1.2	2.2	756463.800	3650821.000	250.709
741	1414 WB	White Burr Sage	1.0	1.6	756465.900	3650820.000	250.602
742	1415 WB	White Burr Sage	0.6	1.0	756466.400	3650820.000	250.658
743	1416 WB	White Burr Sage	0.7	1.0	756468.500	3650820.000	250.694
744	1417 GB	Grey Bush???	0.5	0.8	756468.100	3650821.000	250.700
745	1418 CR	Creosote	0.8	1.1	756469.800	3650822.000	250.732
746	1419 CR	Creosote	0.9	1.0	756469.900	3650822.000	250.754
(Sheet 24 of 59)							

Number	Plant Name	Species	Height	Width	East	North	Elevation
747	1420 CR	Creosote	0.9	0.9	756470.800	3650818.000	250.798
748	1421 CR	Creosote	1.2	1.3	756470.600	3650818.000	250.781
749	1422 CR	Creosote	1.1	1.2	756470.100	3650817.000	250.791
750	1423 YP	Yellow Paloverde	4.3	4.7	756535.600	3650794.000	251.161
751	1424 WB	White Burr Sage	0.4	0.5	756534.500	3650792.000	251.158
752	1425 B2	Unidentified	0.8	1.1	756536.000	3650793.000	251.124
753	1426 DS	Brittle Bush	0.7	1.0	756534.600	3650794.000	251.119
754	1427 CR	Creosote	0.7	0.7	756534.600	3650795.000	251.183
755	1428 B2	Unidentified	0.7	0.7	756536.800	3650796.000	251.218
756	1429 WB	White Burr Sage	0.4	0.9	756536.300	3650796.000	251.226
757	1430 CR	Creosote	0.7	1.1	756534.300	3650795.000	251.206
758	1431 B2	Unidentified	0.8	1.1	756536.300	3650794.000	251.147
759	1432 CR	Creosote	0.8	1.5	756473.100	3650820.000	250.984
760	1433 WB	White Burr Sage	0.3	0.5	756462.300	3650811.000	250.525
761	1434 CR	Creosote	0.9	1.2	756538.600	3650800.000	251.416
762	1435 CR	Creosote	0.9	1.2	756538.600	3650800.000	251.376
763	1436 WB	White Burr Sage	0.5	0.9	756541.500	3650797.000	251.287
764	1437 WB	White Burr Sage	0.4	0.5	756543.400	3650799.000	251.282
765	1438 WB	White Burr Sage	0.3	0.7	756542.300	3650800.000	251.290
766	1439 WB	White Burr Sage	0.5	0.8	756545.000	3650801.000	251.363
767	1440 CR	Creosote	1.3	2.3	756549.300	3650803.000	251.380
768	1441 CR	Creosote	0.9	1.5	756547.300	3650804.000	251.267
769	1442 OC	Octilla	1.8	1.5	756550.600	3650805.00	251.367
770	1443 YP	Yellow Paloverde	2.9	3.6	756552.800	3650808.000	251.419
771	1444 WB	White Burr Sage	0.6	0.8	756553.400	3650806.000	251.418
772	1445 CR	Creosote	1.0	1.7	756553.300	3650811.000	251.528
773	1446 CR	Creosote	1.1	1.7	756556.200	3650813.000	251.466
774	1447 CR	Creosote	0.8	1.8	756557.100	3650816.000	251.556
775	1448 GB	Grey Bush???	0.5	0.9	756558.600	3650818.000	251.548
776	1449 WB	White Burr Sage	0.6	1.0	756560.600	3650820.000	251.541
777	1450 B2	Unidentified	0.7	1.0	756561.100	3650820.000	251.618
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Number	Plant Name	Species	Height	Width	East	North	Elevation
778	1451 CR	Creosote	0.9	1.7	756564.400	3650820.000	251.578
779	1452 CR	Creosote	0.8	1.0	756565.900	3650821.000	251.635
780	1453 CR	Creosote	0.9	1.2	756566.500	3650822.000	251.668
781	1454 CR	Creosote	0.7	1.1	756567.000	3650822.000	251.660
782	1455 OC	Octilla	3.3	1.6	756567.900	3650822.000	251.672
783	1456 CR	Creosote	1.3	2.0	756569.800	3650829.000	251.780
784	1457 CR	Creosote	1.3	1.7	756575.400	3650832.000	251.881
785	1458 CR	Creosote	1.0	2.2	756581.300	3650840.000	251.974
786	1459 CR	Creosote	0.9	1.0	756582.000	3650842.000	251.961
787	1460 WB	White Burr Sage	0.4	0.7	756583.800	3650844.000	252.024
788	1461 WB	White Burr Sage	0.3	0.4	756585.100	3650845.000	252.022
789	1462 WB	White Burr Sage	0.6	0.9	756586.200	3650847.000	252.028
790	1463 CR	Creosote	1.1	1.8	756592.500	3650854.000	252.155
791	1464 CR	Creosote	1.0	2.1	756598.300	3650854.000	252.301
792	1465 CR	Creosote	1.1	1.7	756601.100	3650862.000	252.302
793	1466 CR	Creosote	0.6	0.8	756607.300	3650863.000	252.514
794	1467 CR	Creosote	1.3	1.9	756612.600	3650874.000	252.768
795	1468 RB	Wolfberry	1.3	1.5	756611.400	3650886.000	252.613
796	1469 CR	Creosote	0.8	1.4	756616.900	3650900.000	252.958
797	1470 CR	Creosote	1.3	2.0	756622.400	3650898.000	252.801
798	1471 CR	Creosote	1.5	2.2	756627.600	3650902.000	252.929
799	1472 CR	Creosote	1.1	1.4	756627.500	3650903.000	252.928
800	1473 CR	Creosote	1.2	1.2	756628.200	3650908.000	253.005
801	1474 CR	Creosote	0.5	0.6	756631.100	3650911.000	253.031
802	1475 CR	Creosote	1.0	1.8	756633.500	3650911.000	253.065
803	1476 CR	Creosote	1.7	2.4	756635.400	3650904.000	253.092
804	1477 CR	Creosote	1.3	1.2	756631.000	3650899.000	252.998
805	1478 WB	White Burr Sage	0.5	1.0	756552.600	3650839.000	251.713
806	1479 WB	White Burr Sage	0.5	0.8	756554.200	3650837.000	251.647
807	1480 WB	White Burr Sage	0.4	0.7	756554.000	3650836.000	251.647
808	1481 WB	White Burr Sage	0.6	0.8	756551.700	3650836.000	251.628
(Sheet 26 of 59)							

Number	Plant Name	Species	Height	Width	East	North	Elevation
809	1482 WB	White Burr Sage	0.4	0.8	756550.400	3650837.000	251.631
810	1483 WB	White Burr Sage	0.6	0.9	756550.400	3650834.000	251.596
811	1484 OC	Octilla	2.0	1.0	756550.100	3650833.000	251.535
812	1485 WB	White Burr Sage	0.5	0.7	756549.100	3650832.000	251.557
813	1486 CR	Creosote	1.0	1.9	756545.100	3650832.000	251.693
814	1487 WB	White Burr Sage	0.4	0.5	756544.500	3650829.000	251.502
815	1488 B2	Unidentified	0.6	0.5	756544.100	3650828.000	251.453
816	1489 CR	Creosote	1.1	1.2	756543.400	3650827.000	251.432
817	1490 B2	Unidentified	0.7	0.9	756543.500	3650827.000	251.406
818	1491 WB	White Burr Sage	0.5	0.7	756544.400	3650826.000	251.444
819	1492 CR	Creosote	1.2	2.0	756545.300	3650826.000	251.517
820	1493 OC	Octilla	2.3	1.9	756548.400	3650824.000	251.522
821	1494 CR	Creosote	1.3	1.6	756541.700	3650825.000	251.428
822	1495 OC	Octilla	3.4	3.1	756539.200	3650820.000	251.291
823	1496 CR	Creosote	1.1	2.4	756540.600	3650818.000	251.409
824	1497 WB	White Burr Sage	0.4	0.8	756538.900	3650819.000	251.331
825	1498 WB	White Burr Sage	0.4	0.8	756538.900	3650819.000	251.331
826	1499 GP	Cholla	0.5	0.5	756537.100	3650819.000	251.276
827	1500 WB	White Burr Sage	0.5	0.7	756537.000	3650819.000	251.294
828	1501 GB	Grey Bush???	0.9	1.3	756535.800	3650817.000	251.244
829	1502 CR	Creosote	1.2	1.8	756533.900	3650818.000	251.253
830	1503 CR	Creosote	1.2	1.3	756534.500	3650819.000	251.345
831	1504 WB	White Burr Sage	0.4	0.5	756532.600	3650814.000	251.196
832	1505 CR	Creosote	1.1	1.7	756532.000	3650815.000	251.240
833	1506 CR	Creosote	1.2	1.8	756531.200	3650815.000	251.260
834	1507 CR	Creosote	1.0	1.4	756531.100	3650816.000	251.217
835	1508 WB	White Burr Sage	0.5	0.7	756526.700	3650811.000	251.112
836	1509 YP	Yellow Paloverde	1.4	1.5	756526.300	3650811.000	251.110
837	1510 CR	Creosote	1.2	2.2	756524.100	3650814.000	251.185
838	1511 CR	Creosote	0.9	1.2	756524.600	3650815.000	251.207
839	1512 CR	Creosote	0.7	1.5	756522.400	3650811.000	250.958
(Sheet 27 of 59)							

Number	Plant Name	Species	Height	Width	East	North	Elevation
840	1513 WB	White Burr Sage	0.4	0.7	756522.000	3650809.000	250.915
841	1514 CR	Creosote	0.6	1.9	756521.700	3650806.000	251.022
842	1515 OC	Octilla	3.7	2.7	756520.400	3650808.000	250.858
843	1516 WB	White Burr Sage	0.4	0.9	756520.100	3650806.000	250.910
844	1517 CR	Creosote	1.1	1.4	756518.700	3650806.000	250.919
845	1518 WB	White Burr Sage	0.5	0.7	756517.800	3650806.000	250.936
846	1519 DS	Brittle Bush	0.8	1.2	756514.700	3650801.000	250.901
847	1520 CR	Creosote	1.3	1.7	756514.100	3650801.000	250.938
848	1521 CR	Creosote	1.3	1.8	756513.800	3650801.000	250.967
849	1522 WB	White Burr Sage	0.4	0.6	756513.800	3650804.000	250.816
850	1523 WB	White Burr Sage	0.6	0.9	756511.200	3650802.000	250.750
851	1524 WB	White Burr Sage	0.4	0.7	756509.300	3650803.000	250.776
852	1525 CR	Creosote	1.1	1.5	756504.900	3650800.000	250.808
853	1526 CR	Creosote	1.2	1.3	756504.500	3650799.000	250.808
854	1527 WB	White Burr Sage	0.6	1.1	756503.600	3650796.000	250.611
855	1528 WB	White Burr Sage	0.3	0.3	756503.300	3650797.000	250.536
856	1529 GB	Grey Bush???	0.5	0.9	756500.900	3650797.000	250.604
857	1530 WB	White Burr Sage	0.6	1.1	756500.300	3650795.000	250.565
858	1531 CR	Creosote	1.2	1.9	756004.900	3650808.000	247.511
859	1532 CR	Creosote	0.6	1.4	756008.300	3650804.000	246.981
860	1533 CR	Creosote	1.1	2.2	756012.400	3650803.000	246.617
861	1534 WB	White Burr Sage	0.4	0.8	756037.300	3650806.000	245.692
862	1535 CR	Creosote	0.9	1.9	756040.300	3650806.000	245.708
863	1536 WB	White Burr Sage	0.4	0.6	756039.400	3650809.000	245.728
864	1537 WB	White Burr Sage	0.4	0.6	756040.300	3650812.000	245.794
865	1538 WB	White Burr Sage	0.5	0.8	756038.300	3650813.000	245.822
866	1539 WB	White Burr Sage	0.4	0.5	756040.200	3650813.000	245.850
867	1540 CR	Creosote	0.8	1.7	756041.300	3650815.000	245.802
868	1541 WB	White Burr Sage	0.5	0.6	756041.000	3650815.000	245.901
869	1542 CR	Creosote	1.0	1.4	756107.400	3650839.000	246.735
870	1543 CR	Creosote	1.0	1.5	756107.000	3650840.000	246.619
(Sheet 28 of 59)							

Number	Plant Name	Species	Height	Width	East	North	Elevation
871	1544 CR	Creosote	1.2	1.2	756116.600	3650840.000	246.924
872	1545 CR	Creosote	1.3	1.4	756116.900	3650840.000	246.930
873	1546 CR	Creosote	1.2	1.8	756121.300	3650838.000	247.243
874	1547 CR	Creosote	1.0	1.3	756124.600	3650837.000	247.441
875	1548 CR	Creosote	1.0	1.5	756124.800	3650838.000	247.357
876	1549 WB	White Burr Sage	0.7	1.4	756124.800	3650839.000	247.086
877	1550 CR	Creosote	1.2	2.3	756129.300	3650834.000	247.808
878	1551 WB	White Burr Sage	0.5	0.7	756130.800	3650837.000	247.490
879	1552 CR	Creosote	0.8	1.1	756132.100	3650837.000	247.695
880	1553 WB	White Burr Sage	0.7	1.4	756106.400	3650855.000	246.622
881	1554 WB	White Burr Sage	0.8	1.2	756106.800	3650856.000	246.629
882	1555 WB	White Burr Sage	0.4	1.1	756108.700	3650855.000	246.511
883	1556 WB	White Burr Sage	0.7	1.4	756110.600	3650857.000	246.696
884	1557 WB	White Burr Sage	0.4	0.5	756111.200	3650855.000	246.633
885	1558 DS	Brittle Bush	1.4	1.4	756107.500	3650858.000	246.544
886	1559 CR	Creosote	1.1	1.2	756107.900	3650859.000	246.578
887	1560 CC	Catclaw	3.8	4.2	756104.700	3650860.000	246.715
888	1561 RB	Wolfberry	2.4	1.5	756105.700	3650860.000	246.702
889	1562 WB	White Burr Sage	0.7	1.2	756107.600	3650861.000	246.722
890	1563 CR	Creosote	1.2	1.2	756106.900	3650861.000	246.609
891	1564 WB	White Burr Sage	0.4	0.5	756101.300	3650858.000	246.583
892	1565 CC	Catclaw	0.2	1.8	756103.300	3650856.000	246.548
893	1566 CR	Creosote	1.0	1.5	756095.900	3650861.000	247.325
894	1567 CC	Catclaw	0.1	1.5	756099.600	3650863.000	247.032
895	1568 CR	Creosote	1.1	1.8	756093.800	3650866.000	247.436
896	1569 CR	Creosote	1.0	2.0	756091.100	3650869.000	248.268
897	1570 CR	Creosote	1.0	1.9	756026.900	3650879.000	246.556
898	1571 CR	Creosote	0.9	1.6	756009.600	3650882.000	246.472
899	1572 CR	Creosote	0.8	0.9	756007.300	3650878.000	246.323
900	1573 CR	Creosote	0.9	1.6	756003.600	3650880.000	246.357
901	1574 CR	Creosote	0.8	1.4	755991.200	3650886.000	246.382
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Number	Plant Name	Species	Height	Width	East	North	Elevation
902	1575 YP	Yellow Paloverde	0.9	0.6	755980.500	3650890.000	246.372
903	1576 CR	Creosote	1.0	1.6	755970.100	3650886.000	246.487
904	1577 CR	Creosote	0.7	2.0	755962.000	3650886.000	246.323
905	1578 WB	White Burr Sage	0.5	0.7	755962.100	3650885.000	246.316
906	1579 CR	Creosote	0.9	0.9	755962.400	3650884.000	246.314
907	1580 RB	Wolfberry	1.2	1.2	755953.100	3650888.000	246.301
908	1581 CR	Creosote	1.2	2.0	755950.500	3650891.000	246.326
909	1582 CR	Creosote	1.0	1.3	755957.900	3650894.000	246.382
910	1583 CR	Creosote	0.7	1.2	755940.900	3650899.000	246.440
911	1584 CR	Creosote	0.8	1.1	755938.800	3650902.000	246.201
912	1585 CR	Creosote	0.7	1.1	755934.200	3650897.000	246.243
913	1586 CR	Creosote	0.8	1.1	755931.600	3650897.000	246.312
914	1587 CR	Creosote	0.9	1.4	755933.200	3650900.000	246.263
915	1588 CR	Creosote	0.9	1.6	755926.900	3650899.000	246.123
916	1589 CR	Creosote	0.5	0.6	755927.300	3650898.000	246.097
917	1590 CR	Creosote	0.8	1.4	755921.100	3650903.000	246.152
918	1591 DS	Brittle Bush	0.3	0.4	755919.400	3650905.000	246.006
919	1592 CR	Creosote	1.4	2.0	755915.900	3650901.000	246.121
920	1593 ST	Stump	1.9	3.9	755913.400	3650907.000	245.771
921	1594 DS	Brittle Bush	1.1	1.2	755912.100	3650905.000	245.825
922	1595 RB	Wolfberry	1.4	1.8	755911.800	3650904.000	246.023
923	1596 CR	Creosote	1.5	2.6	755912.500	3650902.000	246.196
924	1597 DS	Brittle Bush	0.9	0.9	755912.700	3650904.000	245.810
925	1598 RB	Wolfberry	0.6	0.9	755913.100	3650904.000	245.852
926	1599 CR	Creosote	1.3	2.0	755913.600	3650902.000	246.220
927	1600 CR	Creosote	1.1	1.7	755913.400	3650901.000	246.240
928	1601 CR	Creosote	0.9	1.5	755911.900	3650900.000	246.206
929	1602 CR	Creosote	1.1	1.2	755912.600	3650898.000	246.050
930	1603 CR	Creosote	1.1	1.3	755912.800	3650898.000	246.032
931	1604 DS	Brittle Bush	0.5	0.4	755909.800	3650898.000	246.040
932	1605 CC	Catclaw	6.0	4.9	755909.100	3650899.000	245.995
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Number	Plant Name	Species	Height	Width	East	North	Elevation
933	1606 CC	Catclaw	4.9	4.2	755906.600	3650896.00	245.988
934	1607 DS	Brittle Bush	0.6	0.5	755907.800	3650895.000	245.820
935	1608 CR	Creosote	1.1	2.2	755911.500	3650894.000	246.022
936	1609 CR	Creosote	1.3	2.1	755908.300	3650889.000	245.943
937	1610 CR	Creosote	1.7	2.4	755905.300	3650892.000	246.125
938	1611 DS	Brittle Bush	0.7	0.8	755903.700	3650894.000	245.617
939	1612 CR	Creosote	1.0	1.4	755903.900	3650895.000	245.516
940	1613 RB	Wolfberry	1.2	1.3	755904.400	3650895.000	245.544
941	1614 RB	Wolfberry	1.3	1.1	755903.600	3650896.000	245.457
942	1615 DS	Brittle Bush	0.8	0.6	755904.200	3650898.000	245.312
943	1616 RB	Wolfberry	2.1	1.2	755906.400	3650896.000	245.944
944	1617 DS	Brittle Bush	0.9	0.6	755905.600	3650895.000	245.758
945	1618 CR	Creosote	1.2	1.3	755854.900	3650779.000	246.504
946	1619 CR	Creosote	0.9	1.5	755857.000	3650777.000	246.229
947	1620 CR	Creosote	0.6	0.9	755858.600	3650775.000	246.075
948	1621 CR	Creosote	0.9	1.2	755866.600	3650779.000	245.919
949	1622 CR	Creosote	1.1	1.2	755869.800	3650780.000	245.772
950	1623 CR	Creosote	1.1	1.7	755870.200	3650781.000	245.933
951	1624 CR	Creosote	1.2	1.5	755865.900	3650785.000	246.688
952	1625 CR	Creosote	0.7	1.8	755861.600	3650799.000	248.053
953	1626 DS	Brittle Bush	0.6	1.3	755881.400	3650802.000	245.774
954	1627 CR	Creosote	1.0	1.9	755884.800	3650798.000	245.426
955	1625 WB	White Burr Sage	0.5	0.5	755884.400	3650798.000	245.519
956	1629 CR	Creosote	0.8	1.1	755887.300	3650792.000	245.436
957	1630 CR	Creosote	1.2	1.6	755891.600	3650788.000	244.781
958	1631 CR	Creosote	0.4	0.5	755891.600	3650787.000	244.768
959	1632 CR	Creosote	0.6	1.2	755892.200	3650786.000	244.835
960	1633 CR	Creosote	0.8	1.5	755893.900	3650786.000	244.913
961	1634 CR	Creosote	0.7	0.9	755891.000	3650782.000	244.846
962	1634 CR	Creosote	0.7	0.9	755891.200	3650781.000	244.846
963	1636 CR	Creosote	0.9	1.2	755893.300	3650791.000	244.863
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Number	Plant Name	Species	Height	Width	East	North	Elevation
964	1637 CR	Creosote	1.2	1.5	755900.800	3650788.000	244.813
965	1638 CR	Creosote	1.0	1.3	755900.200	3650792.000	244.999
966	1639 CR	Creosote	0.9	1.0	755900.300	3650793.000	244.983
967	1640 CR	Creosote	1.1	1.3	755900.400	3650794.000	244.922
968	1641 WB	White Burr Sage	0.6	0.8	755903.600	3650795.000	244.684
969	1642 CR	Creosote	0.9	1.8	755908.800	3650788.000	244.902
970	1643 CR	Creosote	1.0	1.2	755912.300	3650797.000	245.056
971	1644 YP	Yellow Paloverde	1.4	1.6	755916.100	3650794.000	244.874
972	1645 CR	Creosote	0.9	1.5	755915.000	3650793.000	244.911
973	1646 WB	White Burr Sage	0.6	0.8	755915.800	3650792.000	244.813
974	1647 CR	Creosote	1.2	2.5	755918.300	3650796.000	244.926
975	1648 CR	Creosote	1.0	1.5	755921.900	3650799.000	245.028
976	1649 CR	Creosote	1.6	2.0	755922.800	3650799.000	245.038
977	1650 YP	Yellow Paloverde	4.1	4.3	756026.600	3650871.000	246.168
978	1651 CR	Creosote	1.7	1.3	756028.500	3650871.000	246.503
979	1652 WB	White Burr Sage	0.3	0.5	756024.200	3650872.000	246.188
980	1653 CR	Creosote	1.2	0.9	756033.600	3650863.000	246.800
981	1654 CR	Creosote	0.7	0.9	756033.100	3650862.000	246.691
982	1655 CR	Creosote	0.8	1.1	756026.900	3650864.000	246.309
983	1656 CR	Creosote	1.0	1.4	756020.300	3650867.000	246.253
984	1657 CR	Creosote	1.1	1.5	756019.800	3650867.000	246.256
985	1658 WB	White Burr Sage	0.5	0.3	756019.200	3650862.000	246.019
986	1659 CR	Creosote	1.0	1.3	756021.900	3650859.000	246.231
987	1660 CR	Creosote	1.2	2.0	756016.700	3650859.000	246.147
988	1661 CR	Creosote	0.5	0.5	756015.500	3650859.000	246.195
989	1662 CR	Creosote	0.8	1.0	756016.000	3650858.000	246.156
990	1663 CR	Creosote	0.8	1.0	756016.300	3650858.000	246.134
991	1664 CR	Creosote	1.0	1.3	756017.000	3650858.000	246.033
992	1665 WB	White Burr Sage	0.8	1.1	756016.900	3650858.000	246.115
993	1667 CR	Creosote	0.9	1.2	756026.200	3650852.000	246.541
994	1668 CR	Creosote	0.8	1.0	755965.500	3650828.000	245.375
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Number	Plant Name	Species	Height	Width	East	North	Elevation
995	1669 CR	Creosote	1.0	1.4	756018.100	3650853.000	246.267
996	1670 ST	Stump	3.2	5.6	756017.000	3650853.000	246.144
997	1671 CC	Catclaw	4.6	4.3	756015.400	3650852.000	246.081
998	1672 RB	Wolfberry	1.8	2.6	756016.900	3650852.000	246.222
999	1673 CR	Creosote	0.7	1.0	756017.600	3650847.000	246.332
1000	1674 CR	Creosote	0.9	1.0	756014.400	3650846.000	246.193
1001	1675 CR	Creosote	1.3	2.0	756010.100	3650845.000	246.292
1002	1676 CR	Creosote	1.4	1.5	756009.700	3650844.000	246.518
1003	1677 CR	Creosote	0.7	1.3	756007.900	3650842.000	246.292
1004	1678 CR	Creosote	0.5	0.5	756006.800	3650842.000	246.135
1005	1679 CR	Creosote	1.0	1.5	756007.400	3650841.000	246.693
1006	1680 CR	Creosote	5.6	5.3	756003.600	3650845.000	245.821
1007	1681 CR	Creosote	1.0	1.7	756004.800	3650845.000	245.977
1008	1682 CR	Creosote	1.8	1.7	756001.400	3650843.000	245.935
1009	1683 CR	Creosote	1.1	1.6	756001.100	3650843.000	246.008
1010	1684 CR	Creosote	1.2	1.5	756002.800	3650838.000	246.988
1011	1685 CR	Creosote	1.1	1.8	756000.300	3650839.000	246.058
1012	1686 RB	Wolfberry	1.6	1.8	755997.600	3650839.000	245.815
1013	1687 CR	Creosote	1.3	1.7	755995.500	3650837.000	245.965
1014	1688 CR	Creosote	0.9	1.3	755996.600	3650833.000	247.414
1015	1689 CR	Creosote	0.6	0.8	755994.300	3650832.000	247.109
1016	1690 CR	Creosote	0.7	1.3	755992.000	3650838.000	245.778
1017	1691 WB	White Burr Sage	0.6	0.7	755991.600	3650838.000	245.751
1018	1692 CR	Creosote	1.2	2.0	755992.000	3650839.000	245.805
1019	1693 CR	Creosote	1.5	2.4	755990.600	3650835.000	245.972
1020	1694 CR	Creosote	1.5	1.9	755990.300	3650835.000	245.892
1021	1695 CR	Creosote	1.3	2.2	755988.900	3650831.000	246.405
1022	1696 WB	White Burr Sage	0.4	0.8	755986.900	3650834.000	245.697
1023	1697 WB	White Burr Sage	0.4	0.8	755985.700	3650833.000	245.675
1024	1698 WB	White Burr Sage	0.5	0.7	755984.000	3650832.000	245.657
1025	1699 WB	White Burr Sage	0.4	0.6	755984.300	3650832.000	245.709
(Sheet 33 of 59)							

Number	Plant Name	Species	Height	Width	East	North	Elevation
1026	1700 CR	Creosote	0.9	1.4	755986.600	3650829.000	246.326
1027	1701 CR	Creosote	1.9	2.8	755981.900	3650827.000	246.252
1028	1702 WB	White Burr Sage	0.4	0.7	755981.900	3650831.000	245.638
1029	1703 WB	White Burr Sage	0.8	1.5	755979.800	3650830.000	245.588
1030	1704 WB	White Burr Sage	0.6	1.1	755977.200	3650830.000	245.579
1031	1705 CR	Creosote	0.9	0.8	755981.900	3650823.000	246.831
1032	1706 CR	Creosote	0.8	1.1	755983.000	3650815.000	249.173
1033	1707 CR	Creosote	1.6	2.3	755974.800	3650825.000	245.817
1034	1708 YP	Yellow Paloverde	5.1	7.5	755972.900	3650828.000	245.556
1035	1709 CR	Creosote	0.9	1.8	755973.700	3650828.000	245.673
1036	1710 CR	Creosote	0.8	1.0	755973.400	3650827.000	245.624
1037	1711 CR	Creosote	1.0	1.2	755972.900	3650827.000	245.606
1038	1712 DS	Brittle Bush	0.4	0.9	755971.600	3650826.000	245.526
1039	1713 DS	Brittle Bush	1.2	1.6	755968.900	3650831.000	245.402
1040	1716 DS	Brittle Bush	1.1	1.3	755968.900	3650831.000	245.420
1041	1717 B3	Green Bush???	1.0	1.6	755969.600	3650831.000	245.327
1042	1718 WB	White Burr Sage	0.5	1.1	755971.300	3650834.000	245.472
1043	1719 B3	Green Bush???	1.0	1.4	755972.200	3650833.000	245.492
1044	1720 B3	Green Bush???	1.5	1.6	755972.400	3650830.000	245.147
1045	1721 B3	Green Bush???	0.8	1.7	755973.600	3650829.000	245.611
1046	1722 CR	Creosote	0.8	1.4	755974.200	3650828.000	245.598
1047	1723 CR	Creosote	1.1	1.1	755973.900	3650821.000	246.194
1048	1724 CR	Creosote	0.8	1.0	755972.300	3650817.000	246.430
1049	1725 CR	Creosote	1.3	1.9	755971.100	3650819.000	246.153
1050	1726 CR	Creosote	1.6	1.5	755965.000	3650816.000	245.521
1051	1727 CR	Creosote	0.9	1.3	755963.700	3650812.000	245.856
1052	1728 DS	Brittle Bush	0.5	0.9	755961.200	3650812.000	245.429
1053	1729 CR	Creosote	0.9	1.2	755959.900	3650808.000	245.992
1054	1730 CR	Creosote	1.3	2.8	755952.600	3650804.000	245.426
1055	1731 CR	Creosote	1.6	2.5	755948.600	3650801.000	245.228
1056	1732 ST	Stump	2.2	3.1	755932.900	3650797.000	245.061
(Sheet 34 of 59)							

Number	Plant Name	Species	Height	Width	East	North	Elevation
1057	1733 RB	Wolfberry	1.6	1.3	755931.100	3650798.000	245.047
1058	1734 RB	Wolfberry	1.0	0.9	755933.500	3650799.000	245.104
1059	1735 CR	Creosote	1.4	2.0	755931.900	3650804.000	245.040
1060	1736 CR	Creosote	1.5	1.9	755931.400	3650805.000	245.405
1061	1737 YP	Yellow Paloverde	7.4	7.0	755937.600	3650807.000	245.085
1062	1738 CR	Creosote	1.3	1.7	755937.900	3650804.000	245.215
1063	1739 CR	Creosote	1.5	1.6	755938.800	3650804.000	245.306
1064	1740 WB	White Burr Sage	0.6	0.6	755942.900	3650803.000	245.089
1065	1741 WB	White Burr Sage	0.6	0.5	755942.600	3650804.000	245.111
1066	1742 WB	White Burr Sage	0.7	1.3	755942.900	3650807.000	245.226
1067	1743 DS	Brittle Bush	1.4	1.2	755937.900	3650809.000	245.225
1068	1744 CR	Creosote	1.3	3.2	755941.000	3650812.000	245.195
1069	1745 CR	Creosote	1.4	2.1	755941.500	3650812.000	245.216
1070	1746 WB	White Burr Sage	0.5	0.8	755941.700	3650816.000	245.225
1071	1747 CR	Creosote	1.0	1.3	755943.100	3650815.000	245.282
1072	1748 CR	Creosote	1.0	1.5	755945.600	3650814.000	245.200
1073	1749 CR	Creosote	2.0	2.9	755950.600	3650812.000	245.245
1074	1750 WB	White Burr Sage	0.5	1.1	755952.300	3650815.000	245.233
1075	1751 YP	Yellow Paloverde	3.4	3.7	755951.100	3650819.000	245.299
1076	1752 DS	Brittle Bush	0.35	0.7	755951.600	3650817.000	245.113
1077	1753 DS	Brittle Bush	0.4	0.3	755950.500	3650819.000	245.350
1078	1754 CR	Creosote	1.8	3.0	755950.700	3650820.000	245.409
1079	1755 CR	Creosote	2.0	3.0	755951.300	3650820.000	245.484
1080	1756 DS	Brittle Bush	1.0	1.4	755952.400	3650820.000	245.164
1081	1757 DS	Brittle Bush	0.5	1.1	755955.300	3650819.000	245.177
1082	1758 CR	Creosote	2.0	3.1	755957.100	3650819.000	245.510
1083	1759 CR	Creosote	1.7	1.7	755957.500	3650818.000	245.493
1084	1760 CR	Creosote	1.8	1.5	755957.800	3650819.000	245.455
1085	1761 CC	Catclaw	2.3	2.4	755959.100	3650823.000	245.089
1086	1762 B3	Green Bush???	0.8	1.3	755958.000	3650823.000	245.250
1087	1763 RB	Wolfberry	0.7	1.2	755958.100	3650826.000	245.337
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Number	Plant Name	Species	Height	Width	East	North	Elevation
1088	1764 RB	Wolfberry	0.9	1.1	755958.900	3650826.000	245.303
1089	1765 RB	Wolfberry	1.3	1.3	755959.600	3650827.000	245.386
1090	1766 CR	Creosote	0.8	1.5	755963.400	3650821.000	245.513
1091	1767 WB	White Burr Sage	0.3	0.9	755961.900	3650822.000	245.456
1092	1768 WB	White Burr Sage	0.3	0.7	755964.300	3650824.000	245.325
1093	1769 DS	Brittle Bush	0.8	0.7	755964.900	3650824.000	245.315
1094	1770 B3	Green Bush???	0.9	1.4	755964.600	3650825.000	245.303
1095	1771 B2	Unidenified	0.5	0.6	755963.600	3650826.000	245.257
1096	1772 ST	Stump	1.7	1.1	755963.900	3650827.000	245.287
1097	1773 DS	Brittle Bush	0.6	1.9	755964.200	3650827.000	245.357
1098	1774 WB	White Burr Sage	0.5	0.8	755964.300	3650829.000	245.397
1099	1775 DS	Brittle Bush	2.8	2.5	755965.100	3650829.000	245.395
1100	1776 RB	Wolfberry	1.1	0.7	755965.200	3650829.000	245.431
1101	1777 RB	Wolfberry	1.0	1.0	755965.100	3650831.000	245.396
1102	1778 WB	White Burr Sage	0.4	0.5	755965.600	3650832.000	245.457
1103	1779 WB	White Burr Sage	0.6	0.8	755965.900	3650833.000	245.522
1104	1780 CR	Creosote	1.0	1.4	755969.100	3650836.000	245.735
1105	1781 CR	Creosote	1.0	1.7	755970.400	3650837.000	245.758
1106	1782 CR	Creosote	1.3	1.5	755975.800	3650837.000	245.673
1107	1783 CR	Creosote	1.3	1.4	755976.800	3650837.000	245.735
1108	1784 CR	Creosote	1.0	0.9	755976.600	3650837.000	245.786
1109	1785 CR	Creosote	1.3	1.7	755977.000	3650836.000	245.751
1110	1786 CR	Creosote	1.4	2.2	755976.400	3650836.000	245.703
1111	1787 CR	Creosote	1.3	2.1	755982.800	3650838.000	245.839
1112	1788 CR	Creosote	1.2	1.9	755984.300	3650838.000	245.702
1113	1789 DS	Brittle Bush	0.9	1.1	755985.800	3650838.000	245.646
1114	1790 GP	Cholla	0.9	0.8	755986.400	3650838.000	245.585
1115	1791 WB	White Burr Sage	0.5	0.6	755991.100	3650839.000	245.808
1116	1792 WB	White Burr Sage	0.6	0.7	755992.300	3650839.000	245.809
1117	1793 WB	White Burr Sage	0.5	0.7	755994.500	3650841.000	245.752
1118	1794 CR	Creosote	1.5	1.4	755992.900	3650843.000	245.811
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Number	Plant Name	Species	Height	Width	East	North	Elevation
1119	1795 CR	Creosote	1.5	1.2	755992.900	3650843.000	245.726
1120	1796 CR	Creosote	1.3	1.4	755992.000	3650843.000	245.832
1121	1797 WB	White Burr Sage	0.5	0.8	755993.900	3650846.000	245.831
1122	1798 WB	White Burr Sage	0.4	0.4	755993.900	3650846.000	245.854
1123	1799 WB	White Burr Sage	0.5	0.8	755995.100	3650849.000	245.919
1124	1800 WB	White Burr Sage	0.6	1.4	755996.100	3650846.000	245.927
1125	1801 DS	Brittle Bush	0.4	0.3	755934.200	3650811.000	245.946
1126	1802 WB	White Burr Sage	0.5	1.0	755998.100	3650851.000	245.946
1127	1803 CR	Creosote	1.4	2.5	755999.400	3650848.000	246.032
1128	1804 CR	Creosote	0.9	1.8	756000.100	3650849.000	246.065
1129	1805 CR	Creosote	1.1	2.1	756000.500	3650848.000	246.035
1130	1806 WB	White Burr Sage	0.4	1.4	756000.900	3650845.000	245.863
1131	1807 CR	Creosote	1.7	1.2	756001.100	3650843.000	245.930
1132	1808 CR	Creosote	1.3	1.6	756007.100	3650851.000	246.023
1133	1809 CR	Creosote	1.3	2.1	756006.300	3650852.000	246.047
1134	1810 CR	Creosote	1.7	2.8	756007.600	3650852.000	246.104
1135	1811 WB	White Burr Sage	0.4	0.7	756010.800	3650856.000	246.093
1136	1812 CR	Creosote	0.8	0.9	756008.200	3650874.000	246.408
1137	1813 CR	Creosote	0.6	0.9	756007.300	3650875.000	246.318
1138	1814 CR	Creosote	0.6	0.9	756002.900	3650876.000	246.395
1139	1815 CR	Creosote	0.6	1.1	75599.600	3650873.000	246.165
1140	1816 CR	Creosote	1.0	1.2	755994.600	3650875.000	246.306
1141	1817 CR	Creosote	0.6	1.1	755993.600	3650875.000	246.298
1142	1818 CR	Creosote	0.5	0.5	755996.700	3650868.000	246.117
1143	1819 WB	White Burr Sage	0.5	0.7	755993.300	3650870.000	246.147
1144	1820 CR	Creosote	0.7	1.5	755989.000	3650872.000	246.151
1145	1821 CR	Creosote	0.7	0.9	755986.600	3650869.000	246.114
1146	1822 WB	White Burr Sage	0.4	0.4	755986.300	3650869.000	246.103
1147	1823 WB	White Burr Sage	0.3	0.3	755985.800	3650870.000	246.086
1148	1824 CR	Creosote	0.5	0.8	755983.300	3650870.000	246.208
1149	1825 CR	Creosote	0.6	0.9	755985.500	3650864.000	246.007
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Number	Plant Name	Species	Height	Width	East	North	Elevation
1150	1826 CR	Creosote	0.9	1.7	755987.900	3650865.000	246.093
1151	1827 CR	Creosote	0.6	1.0	755988.400	3650864.000	246.104
1152	1828 CR	Creosote	1.2	1.4	755986.200	3650859.000	245.920
1153	1829 CR	Creosote	1.3	1.0	755986.400	3650858.000	245.997
1154	1830 CR	Creosote	1.1	1.2	755986.100	3650857.000	245.926
1155	1831 CR	Creosote	0.8	1.0	755995.300	3650858.000	246.072
1156	1832 CR	Creosote	0.5	1.3	755993.800	3650855.000	246.074
1157	1833 CR	Creosote	0.8	1.4	755992.600	3650850.000	245.997
1158	1834 CR	Creosote	1.3	1.7	755986.400	3650850.000	245.979
1159	1835 CR	Creosote	0.6	1.1	755980.000	3650850.000	245.836
1160	1836 CR	Creosote	0.5	0.7	755979.100	3650850.000	245.864
1161	1837 CR	Creosote	0.7	1.1	755979.100	3650850.000	245.881
1162	1838 CR	Creosote	1.1	1.5	755979.600	3650850.000	245.871
1163	1839 WB	White Burr Sage	0.3	0.6	755976.900	3650846.000	245.723
1164	1840 WB	White Burr Sage	0.5	0.9	755978.900	3650846.000	245.666
1165	1841 WB	White Burr Sage	0.5	1.2	755976.600	3650845.000	245.725
1166	1842 WB	White Burr Sage	0.5	0.5	755975.800	3650845.000	245.695
1167	1843 WB	White Burr Sage	0.5	0.6	755975.600	3650844.000	245.692
1168	1844 CR	Creosote	0.9	1.3	755973.700	3650843.000	245.660
1169	1845 CR	Creosote	1.0	1.4	755974.100	3650842.000	245.618
1170	1846 DS	Brittle Bush	0.5	0.4	755976.200	3650841.000	245.625
1171	1847 CR	Creosote	0.4	0.9	755971.400	3650847.000	245.834
1172	1848 CR	Creosote	1.0	1.9	755967.700	3650851.000	245.798
1173	1849 CR	Creosote	0.6	1.2	755965.400	3650850.000	245.832
1174	1850 CR	Creosote	1.2	1.4	755964.700	3650847.000	245.892
1175	1851 CR	Creosote	1.3	1.9	755965.300	3650842.000	245.700
1176	1852 WB	White Burr Sage	0.3	0.5	755966.900	3650839.000	245.533
1177	1853 CR	Creosote	1.7	2.7	755965.100	3650838.000	245.623
1178	1854 CR	Creosote	0.6	0.6	755955.300	3650833.000	245.625
1179	1855 CR	Creosote	0.8	0.9	755953.900	3650834.000	245.629
1180	1856 CR	Creosote	0.9	1.2	755953.800	3650832.000	245.619
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Number	Plant Name	Species	Height	Width	East	North	Elevation
1181	1857 CR	Creosote	0.7	0.7	755951.900	3650831.000	245.643
1182	1858 CR	Creosote	1.3	1.6	755953.200	3650826.000	245.581
1183	1859 CR	Creosote	1.4	0.9	755954.900	3650825.000	245.335
1184	1860 CR	Creosote	1.5	2.3	755949.400	3650824.000	245.536
1185	1861 CR	Creosote	1.3	1.5	755945.300	3650830.000	245.619
1186	1862 CR	Creosote	0.8	1.2	755942.300	3650823.000	245.362
1187	1863 CR	Creosote	0.7	1.6	755941.800	3650822.000	245.345
1188	1864 CR	Creosote	0.7	1.6	755935.800	3650821.000	245.474
1189	1865 CR	Creosote	0.8	1.0	755933.800	3650817.000	245.360
1190	1866 CR	Creosote	0.8	1.6	755919.600	3650811.000	245.415
1191	1867 YP	Yellow Paloverde	5.5	6.2	755917.000	3650810.000	245.202
1192	1868 CR	Creosote	0.7	0.7	755913.200	3650803.000	245.088
1193	1869 CR	Creosote	1.1	1.6	755910.100	3650809.000	245.262
1194	1870 CR	Creosote	0.6	0.9	755906.100	3650807.000	245.074
1195	1871 CR	Creosote	0.8	1.0	755906.000	3650806.000	245.133
1196	1872 CR	Creosote	0.7	1.0	755905.400	3650804.000	245.067
1197	1873 CR	Creosote	0.7	1.2	755904.600	3650803.000	244.965
1198	1874 CR	Creosote	1.0	1.9	755901.600	3650799.000	244.803
1199	1875 CR	Creosote	0.7	1.1	755904.400	3650799.000	244.984
1200	1876 CR	Creosote	0.8	2.36	755904.300	3650797.000	244.933
1201	1877 CR	Creosote	0.9	1.5	755904.800	3650798.000	244.987
1202	1878 CR	Creosote	1.0	1.6	755894.400	3650797.000	244.971
1203	1879 CR	Creosote	1.2	1.3	755894.300	3650795.000	244.971
1204	1880 CR	Creosote	1.2	1.5	755892.500	3650797.000	244.983
1205	1881 CR	Creosote	1.3	1.7	755892.700	3650797.000	245.024
1206	1882 CR	Creosote	1.0	1.0	755900.300	3650804.000	244.927
1207	1884 WB	White Burr Sage	0.3	0.5	755900.300	3650805.000	244.888
1208	1885 CR	Creosote	0.9	1.4	755902.100	3650810.000	245.165
1209	1886 CR	Creosote	0.9	1.2	755901.800	3650811.000	245.105
1210	1887 CR	Creosote	0.8	0.9	755902.900	3650812.000	245.263
1211	1888 CR	Creosote	1.2	1.5	755902.800	3650813.000	245.247
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Number	Plant Name	Species	Height	Width	East	North	Elevation
1212	1889 CR	Creosote	0.4	0.7	755906.200	3650812.000	245.068
1213	1890 CR	Creosote	0.9	2.1	755908.800	3650814.000	245.128
1214	1891 CR	Creosote	1.0	1.5	755912.100	3650821.000	245.254
1215	1892 CR	Creosote	1.2	1.8	755913.100	3650823.000	245.331
1216	1893 CR	Creosote	0.9	0.9	755913.400	3650827.000	245.396
1217	1894 CR	Creosote	0.6	1.5	755921.700	3650820.000	245.426
1218	1895 CR	Creosote	0.8	1.8	755933.800	3650829.000	245.568
1219	1896 CR	Creosote	0.8	1.5	755937.000	3650831.000	245.622
1220	1897 WB	White Burr Sage	0.3	0.8	755932.600	3650833.000	245.885
1221	1898 CR	Creosote	1.3	3.1	755935.600	3650835.000	245.644
1222	1899 CR	Creosote	0.7	1.1	755940.300	3650833.000	245.661
1223	1900 CR	Creosote	0.7	1.3	755938.800	3650838.000	245.629
1224	1901 CR	Creosote	0.8	1.2	755944.000	3650836.000	245.646
1225	1902 CR	Creosote	1.0	1.6	755934.600	3650845.000	245.791
1226	1903 CR	Creosote	0.7	0.9	755938.400	3650852.000	245.878
1227	1904 CR	Creosote	0.9	1.0	755940.500	3650854.000	245.848
1228	1905 CR	Creosote	0.7	1.0	755943.100	3650850.000	245.871
1229	1906 CR	Creosote	1.1	1.7	755952.400	3650848.000	245.943
1230	1907 CR	Creosote	1.4	2.4	755956.900	3650866.000	246.107
1231	1908 CR	Creosote	1.4	1.4	755966.900	3650872.000	246.152
1232	1909 CR	Creosote	0.5	1.4	755966.400	3650869.000	246.152
1233	1910 CR	Creosote	1.2	2.6	755967.500	3650865.000	246.025
1234	1911 CR	Creosote	1.1	1.3	755975.100	3650870.000	246.148
1235	1912 CR	Creosote	1.0	1.5	755974.600	3650871.000	246.186
1236	1913 CR	Creosote	1.5	2.0	755980.100	3650879.000	246.323
1237	1914 CR	Creosote	1.2	1.0	755983.500	3650879.000	246.332
1238	1915 CR	Creosote	0.7	1.4	755956.400	3650878.000	246.193
1239	1916 CR	Creosote	0.6	1.2	755955.100	3650874.000	246.143
1240	1917 CR	Creosote	0.6	1.2	755954.800	3650874.000	246.117
1241	1918 CR	Creosote	0.7	1.6	755947.800	3650883.000	246.186
1242	1919 CR	Creosote	0.9	0.7	755948.800	3650880.000	246.353
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Number	Plant Name	Species	Height	Width	East	North	Elevation
1243	1920 CR	Creosote	0.5	0.5	755947.800	3650879.000	246.271
1244	1921 CR	Creosote	0.7	1.0	755946.300	3650868.000	246.030
1245	1922 CR	Creosote	0.7	1.0	755943.900	3650869.000	246.066
1246	1923 CR	Creosote	0.8	1.2	755942.700	3650886.000	246.164
1247	1924 WB	White Burr Sage	0.5	1.0	755940.900	3650882.000	246.111
1248	1925 CR	Creosote	1.0	1.3	755934.900	3650884.000	246.199
1249	1926 WB	White Burr Sage	0.4	1.1	755934.400	3650878.000	245.867
1250	1927 CR	Creosote	0.7	1.2	755940.100	3650878.000	246.035
1251	1928 CR	Creosote	0.8	1.8	755939.400	3650878.000	246.032
1252	1929 CR	Creosote	0.5	1.1	755939.300	3650875.000	246.078
1253	1930 CR	Creosote	0.6	1.3	755937.300	3650872.000	246.112
1254	1931 CR	Creosote	1.1	1.7	755933.800	3650874.000	246.016
1255	1932 CR	Creosote	1.0	1.4	755931.700	3650875.000	245.746
1256	1933 WB	White Burr Sage	0.5	0.9	755931.500	3650874.000	245.817
1257	1934 YP	Yellow Paloverde	3.1	4.1	755929.900	3650872.000	245.808
1258	1935 GP	Cholla	0.4	0.8	755930.900	3650868.000	245.847
1259	1961 CR	Creosote	1.0	1.4	755930.200	3650867.000	245.900
1260	1962 CR	Creosote	0.9	1.4	755929.600	3650866.000	245.915
1261	1963 CR	Creosote	0.5	1.9	755925.600	3650875.000	246.224
1262	1964 CR	Creosote	0.5	0.9	755925.800	3650888.000	356.061
1263	1965 CR	Creosote	1.4	2.0	755917.900	3650893.000	246.098
1264	1966 CR	Creosote	1.1	1.6	755916.700	3650893.000	246.080
1265	1967 CR	Creosote	0.9	2.4	755915.300	3650885.000	245.992
1266	1968 CR	Creosote	1.0	1.9	755911.600	3650885.000	245.953
1267	1969 CR	Creosote	0.7	1.1	755910.400	3650878.000	246.001
1268	1970 CR	Creosote	1.0	1.8	755920.900	3650866.000	245.778
1269	1971 CR	Creosote	1.0	1.7	755922.400	3650871.000	245.928
1270	1972 CR	Creosote	1.1	2.3	755925.100	3650867.00	245.889
1271	1973 CR	Creosote	1.0	1.8	755920.900	3650866.000	245.778
1272	1974 CR	Creosote	0.8	1.5	755921.600	3650862.000	245.681
1273	1975 CR	Creosote	0.9	1.0	755918.900	3650862.000	245.774
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Number	Plant Name	Species	Height	Width	East	North	Elevation
1274	1976 CR	Creosote	1.2	1.3	755918.300	3650860.000	245.778
1275	1977 CR	Creosote	1.0	1.8	755921.400	3650859.000	245.527
1276	1978 CR	Creosote	0.5	0.9	755927.500	3650862.000	245.790
1277	1979 CR	Creosote	1.0	1.3	755924.500	3650857.000	245.717
1278	1980 CR	Creosote	0.9	1.5	755923.700	3650854.000	245.683
1279	1981 CR	Creosote	0.7	1.2	755920.300	3650856.000	245.605
1280	1982 CR	Creosote	0.7	1.5	755920.800	3650854.000	245.549
1281	1983 CR	Creosote	1.4	2.1	755923.400	3650851.000	245.633
1282	1984 CR	Creosote	1.9	3.6	755926.000	3650845.000	245.732
1283	1985 CR	Creosote	1.2	1.3	755921.400	3650846.000	245.616
1284	1986 CR	Creosote	0.7	1.4	755919.200	3650850.00	245.589
1285	1987 CR	Creosote	1.0	2.0	755915.600	3650848.000	245.554
1286	1988 CR	Creosote	1.4	2.5	755917.700	3650845.000	245.502
1287	1989 GP	Cholla	0.3	2.3	755918.400	3650843.000	245.313
1288	1990 CR	Creosote	1.7	1.8	755920.100	3650843.000	245.483
1289	1991 CR	Creosote	0.9	1.7	755920.500	3650841.000	245.649
1290	1992 CR	Creosote	1.9	2.2	755920.000	3650839.000	245.591
1291	1993 CR	Creosote	0.8	2.0	755911.800	3650843.000	245.511
1292	1994 CR	Creosote	1.0	1.6	755911.500	3650840.000	245.473
1293	1995 CR	Creosote	0.9	1.0	755913.300	3650841.000	245.384
1294	1996 CR	Creosote	0.9	1.5	755912.900	3650838.000	245.341
1295	1997 CR	Creosote	0.6	0.9	755911.800	3650836.000	245.293
1296	1998 CR	Creosote	0.8	1.2	755909.600	3650835.000	245.324
1297	1999 CR	Creosote	0.9	1.4	755909.400	3650834.000	245.294
1298	2000 CR	Creosote	1.0	1.2	755913.100	3650832.000	245.262
1299	850 DS	Brittle Bush	0.9	1.3	756418.900	3650872.000	250.333
1300	851 CR	Creosote	1.0	1.9	756419.300	3650875.000	250.577
1301	852 GB	Grey Bush???	0.5	1.1	756421.100	3650878.000	250.453
1302	853 WB	White Burr Sage	0.5	0.8	756421.600	3650879.000	250.436
1303	854 CR	Creosote	1.1	2.4	756423.900	3650882.000	250.578
1304	855 WB	White Burr Sage	0.6	1.0	756424.700	3650882.000	250.541
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Number	Plant Name	Species	Height	Width	East	North	Elevation
1305	856 WB	White Burr Sage	0.5	0.8	756426.000	3650883.000	250.603
1306	857 GB	Grey Bush???	0.6	1.0	756426.100	3650883.000	250.488
1307	858 WB	White Burr Sage	0.4	0.7	756425.600	3650885.000	250.623
1308	859 WB	White Burr Sage	0.5	0.9	756428.600	3650885.000	250.621
1309	860 WB	White Burr Sage	0.4	0.7	756427.100	3650887.000	250.674
1310	861 CR	Creosote	1.2	1.7	756426.000	3650888.000	250.785
1311	862 WB	White Burr Sage	0.4	0.6	756426.600	3650890.000	250.826
1312	863 WB	White Burr Sage	0.4	0.6	756424.300	3650891.000	250.853
1313	864 WB	White Burr Sage	0.5	0.6	756426.900	3650892.000	250.868
1314	865 WB	White Burr Sage	0.4	0.8	756398.100	3650885.000	250.706
1315	866 WB	White Burr Sage	0.4	0.6	756396.000	3650882.000	250.693
1316	867 CR	Creosote	1.0	1.5	756391.300	3650882.000	250.720
1317	868 OC	Octilla	4.1	1.2	756431.600	3650889.000	250.591
1318	869 WB	White Burr Sage	0.6	1.0	756431.600	3650889.000	250.604
1319	870 CR	Creosote	1.0	1.9	756431.900	3650889.000	250.616
1320	871 WB	White Burr Sage	0.5	0.9	756432.600	3650886.000	250.676
1321	872 CR	Creosote	0.8	1.3	756435.300	3650885.000	250.894
1322	873 CR	Creosote	1.1	2.0	756436.500	3650889.000	250.824
1323	874 CR	Creosote	1.0	1.4	756427.400	3650880.000	250.591
1324	875 CR	Creosote	1.4	1.8	756425.100	3650878.000	250.559
1325	876 CR	Creosote	1.2	1.2	756424.300	3650877.000	250.514
1326	877 WB	White Burr Sage	0.5	0.7	756423.800	3650877.000	250.462
1327	878 CR	Creosote	1.0	1.3	756423.100	3650872.000	250.415
1328	879 DS	Brittle Bush	1.0	1.2	756417.300	3650844.000	250.048
1329	880 CR	Creosote	0.9	1.4	756420.100	3650844.000	250.365
1330	881 CR	Creosote	1.1	2.1	756423.700	3650845.000	250.449
1331	882 DS	Brittle Bush	0.5	0.8	756422.800	3650847.000	250.110
1332	883 WB	White Burr Sage	0.4	0.7	756424.000	3650848.000	250.185
1333	884 CR	Creosote	0.8	1.0	756427.600	3650848.000	250.408
1334	885 CR	Creosote	1.0	1.4	756427.300	3650849.000	250.487
1335	886 CC	Catclaw	3.3	4.3	756425.900	3650850.000	250.233
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Number	Plant Name	Species	Height	Width	East	North	Elevation
1336	887 RB	Wolfberry	1.0	1.3	756428.000	3650852.000	250.315
1337	888 DS	Brittle Bush	0.6	0.8	756428.100	3650852.000	250.387
1338	889 CR	Creosote	0.6	0.9	756430.800	3650851.000	250.633
1339	890 WB	White Burr Sage	0.4	0.5	756431.400	3650848.000	250.463
1340	891 CR	Creosote	1.6	2.7	756430.600	3650854.000	250.441
1341	892 WB	White Burr Sage	0.5	0.8	756433.400	3650856.000	250.427
1342	893 CR	Creosote	1.2	2.4	756437.400	3650860.000	250.803
1343	894 CR	Creosote	1.1	1.6	756437.700	3650861.000	250.773
1344	895 CR	Creosote	1.3	2.2	756437.400	3650862.000	250.665
1345	896 CR	Creosote	1.2	2.7	756442.600	3650867.000	250.749
1346	897 WB	White Burr Sage	0.5	0.9	756445.000	3650870.000	250.497
1347	898 CR	Creosote	1.5	1.1	756445.700	3650870.000	250.553
1348	899 WB	White Burr Sage	0.5	0.9	756446.100	3650870.000	250.548
1349	900 CR	Creosote	0.9	1.4	756447.400	3650869.000	250.863
1350	901 CR	Creosote	0.9	1.3	756448.300	3650869.000	250.980
1351	902 CR	Creosote	0.8	1.3	756450.600	3650870.000	250.813
1352	903 YP	Yellow Paloverde	3.7	4.4	756448.900	3650872.000	250.635
1353	904 RB	Wolfberry	1.8	1.8	756450.800	3650873.000	250.666
1354	905 DS	Brittle Bush	0.8	1.5	756449.000	3650871.000	250.646
1355	906 DS	Brittle Bush	0.7	0.8	756450.600	3650875.000	250.503
1356	908 DS	Brittle Bush	0.6	0.9	756451.300	3650876.000	250.621
1357	909 B2	Unidentified	0.7	1.2	756449.800	3650877.000	250.603
1358	910 DS	Brittle Bush	0.7	1.1	756448.500	3650876.000	250.663
1359	911 DS	Brittle Bush	0.9	1.1	756447.900	3650875.000	250.592
1360	912 WB	White Burr Sage	0.3	0.8	756447.900	3650876.000	250.742
1361	913 DS	Brittle Bush	0.6	0.9	756453.100	3650874.000	250.456
1362	914 DS	Brittle Bush	0.7	1.0	756453.800	3650874.000	250.667
1363	915 CR	Creosote	1.4	1.9	756453.000	3650873.000	250.751
1364	916 CR	Creosote	1.3	1.9	756446.800	3650875.000	250.828
1365	917 DS	Brittle Bush	1.0	1.5	756446.300	3650875.000	250.795
1366	918 DS	Brittle Bush	0.4	0.5	756444.400	3650873.000	250.596
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Number	Plant Name	Species	Height	Width	East	North	Elevation
1367	919 WB	White Burr Sage	0.5	0.7	756443.900	3650873.000	250.615
1368	920 WB	White Burr Sage	0.4	0.9	756443.800	3650872.000	250.431
1369	921 DS	Brittle Bush	0.8	1.0	756443.300	3650872.000	250.525
1370	922 WB	White Burr Sage	0.5	1.0	756441.900	3650872.000	250.553
1371	923 WB	White Burr Sage	0.5	0.8	756440.800	3650871.000	250.513
1372	924 DS	Brittle Bush	0.8	1.1	756440.400	3650871.000	250.483
1373	925 WB	White Burr Sage	0.5	0.8	756440.100	3650870.000	250.502
1374	926 CC	Catclaw	4.3	3.5	756438.100	3650869.000	250.458
1375	927 WB	White Burr Sage	0.5	1.0	756438.000	3650869.000	250.451
1376	928 CR	Creosote	1.1	1.5	756436.100	3650868.000	250.536
1377	929 CR	Creosote	1.0	2.1	756434.800	3650870.000	250.761
1378	930 CR	Creosote	1.0	1.2	756434.900	3650871.000	250.830
1379	931 CR	Creosote	1.1	1.9	756439.900	3650874.000	250.779
1380	932 CR	Creosote	0.9	1.5	756441.000	3650878.000	250.950
1381	933 CR	Creosote	0.6	0.8	756441.200	3650884.000	250.992
1382	934 OC	Octilla	2.8	1.9	756444.800	3650885.000	250.909
1383	935 CR	Creosote	1.1	1.7	756447.100	3650888.000	251.026
1384	936 DS	Brittle Bush	0.8	1.2	756434.000	3650864.000	250.272
1385	937 CR	Creosote	1.3	2.7	756434.200	3650865.000	250.411
1386	938 WB	White Burr Sage	0.4	1.0	756432.500	3650863.000	250.348
1387	939 DS	Brittle Bush	0.8	1.3	756430.000	3650861.000	250.322
1388	940 DS	Brittle Bush	0.5	1.1	756428.300	3650859.000	250.282
1389	941 CR	Creosote	1.4	2.0	756425.600	3650855.000	250.331
1390	942 WB	White Burr Sage	0.6	1.0	756424.800	3650853.000	250.212
1391	943 WB	White Burr Sage	0.4	0.6	756424.600	3650852.000	250.139
1392	944 WB	White Burr Sage	0.5	0.9	756422.500	3650850.000	250.118
1393	945 CR	Creosote	1.1	0.8	756420.500	3650852.000	250.464
1394	946 CR	Creosote	1.6	1.2	756420.800	3650850.000	250.285
1395	947 CR	Creosote	2.0	1.5	756419.800	3650850.000	250.285
1396	948 CR	Creosote	1.4	1.4	756420.300	3650849.000	250.191
1397	949 WB	White Burr Sage	0.5	1.5	756420.200	3650849.000	250.191
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Number	Plant Name	Species	Height	Width	East	North	Elevation
1398	950 CR	Creosote	1.3	1.5	756439.700	3650891.000	250.784
1399	951 WB	White Burr Sage	0.4	0.8	756436.300	3650891.000	250.693
1400	952 GP	Cholla	0.7	1.2	756453.100	3650892.000	250.909
1401	953 CR	Creosote	0.8	1.3	756456.400	3650890.000	250.950
1402	954 GB	Grey Bush???	0.5	0.8	756455.900	3650889.000	250.897
1403	955 CR	Creosote	0.6	1.1	756457.400	3650890.000	250.951
1404	956 CR	Creosote	0.8	1.1	756454.900	3650895.000	250.925
1405	957 GB	Grey Bush???	0.6	1.6	756455.900	3650895.000	251.019
1406	958 CR	Creosote	0.7	0.8	756466.500	3650897.000	251.111
1407	959 WB	White Burr Sage	0.5	0.8	756467.600	3650897.000	250.988
1408	960 CR	Creosote	1.5	1.9	756467.400	3650894.000	250.903
1409	961 WB	White Burr Sage	0.6	0.8	756467.300	3650894.000	250.943
1410	962 WB	White Burr Sage	0.6	0.8	756469.600	3650894.000	250.907
1411	963 CR	Creosote	1.2	1.5	756470.900	3650894.000	251.140
1412	964 CR	Creosote	1.1	1.6	756471.300	3650895.000	251.133
1413	965 YP	Yellow Paloverde	4.3	4.3	756476.600	3650893.000	250.857
1414	966 WB	White Burr Sage	0.5	0.7	756464.100	3650861.000	250.825
1415	969 DS	Brittle Bush	1.0	1.1	756475.900	3650893.000	250.856
1416	970 DS	Brittle Bush	0.4	1.0	756479.600	3650892.000	250.907
1417	971 WB	White Burr Sage	0.4	0.9	756481.100	3650892.000	251.007
1418	972 DS	Brittle Bush	0.9	1.2	756480.600	3650895.000	250.994
1419	973 CR	Creosote	1.0	1.9	756481.000	3650895.000	251.063
1420	974 CC	Catclaw	3.8	5.0	756484.900	3650893.000	250.919
1421	975 DS	Brittle Bush	0.9	1.7	756484.300	3650893.000	251.002
1422	976 DS	Brittle Bush	0.5	0.7	756485.400	3650893.000	251.067
1423	977 DS	Brittle Bush	0.6	1.0	756485.900	3650895.000	250.757
1424	978 CR	Creosote	1.1	1.8	756486.200	3650895.000	251.047
1425	979 GP	Cholla	0.9	0.7	756486.900	3650895.000	250.893
1426	980 WB	White Burr Sage	0.4	0.6	756488.800	3650893.000	251.119
1427	981 WB	White Burr Sage	0.4	0.6	756489.100	3650892.000	251.222
1428	982 CR	Creosote	0.7	1.1	756491.300	3650892.000	251.384
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Number	Plant Name	Species	Height	Width	East	North	Elevation
1429	983 WB	White Burr Sage	0.3	0.4	756487.600	3650890.000	251.352
1430	984 WB	White Burr Sage	0.5	0.7	756484.300	3650891.000	250.981
1431	985 WB	White Burr Sage	0.4	0.4	756485.300	3650891.000	251.103
1432	986 WB	White Burr Sage	0.5	0.7	756482.200	3650892.000	250.998
1433	987 CR	Creosote	0.7	1.2	756483.000	3650889.000	251.262
1434	988 GB	Grey Bush???	0.3	1.1	756479.100	3650890.000	250.891
1435	989 CR	Creosote	1.2	1.5	756476.000	3650887.000	251.117
1436	990 CR	Creosote	0.6	0.8	756478.200	3650884.00	251.284
1437	991 CC	Catclaw	4.0	4.0	756473.900	3650888.000	251.047
1438	992 CR	Creosote	1.0	0.6	756473.800	3650887.000	251.132
1439	992 CR	Creosote	1.0	0.6	756473.800	3650887.000	251.132
1440	993 GB	Grey Bush???	0.4	1.1	756473.400	3650887.000	251.162
1441	994 DS	Brittle Bush	0.6	1.1	756472.600	3650888.000	250.744
1442	995 WB	White Burr Sage	0.5	0.8	756475.200	3650889.000	250.796
1443	996 WB	White Burr Sage	0.4	1.0	756474.700	3650888.000	250.866
1444	997 GB	Grey Bush???	0.5	0.7	756476.300	3650888.000	251.063
1445	998 CR	Creosote	0.9	1.4	756470.600	3650887.000	250.953
1446	999 DS	Brittle Bush	0.7	0.8	756470.500	3650887.000	250.818
1447	117 CR	Creosote	1.3	2.7	756361.300	3650835.000	249.300
1448	118 YP	Yellow Paloverde	4.5	3.7	756362.800	3650838.000	249.900
1449	119 DS	Brittle Bush	0.7	1.4	756361.500	3650838.000	249.900
1450	120 WB	White Burr Sage	0.6	1.1	756363.100	3650839.000	250.000
1451	121 WB	White Burr Sage	0.5	0.8	756363.800	3650842.000	249.900
1452	122 CR	Creosote	0.9	1.0	756351.100	3650844.000	250.100
1453	123 CR	Creosote	1.0	1.7	756351.500	3650826.000	249.900
1454	124 CR	Creosote	1.2	1.9	756351.600	3650822.000	249.900
1455	125 CR	Creosote	1.3	1.8	756356.500	3650813.000	249.900
1456	126 DS	Brittle Bush	0.7	1.3	756357.100	3650814.000	249.900
1457	127 B1	Stick Bush	0.4	1.4	756358.900	3650814.000	249.900
1458	129 CR	Creosote	1.0	1.4	756359.800	3650813.000	249.900
1459	133 CR	Creosote	1.0	1.0	756360.900	3650813.000	249.900
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Number	Plant Name	Species	Height	Width	East	North	Elevation
1460	139 CR	Creosote	1.4	1.7	756361.800	3650814.000	249.800
1461	140 S1	Sage	2.4	3.8	756360.300	3650818.000	249.300
1462	141 DS	Brittle Bush	0.6	1.0	756362.000	3650819.000	249.300
1463	142 B1	Stick Bush	0.8	1.6	756364.400	3650821.000	249.200
1464	143 S1	Sage	2.2	1.5	756364.900	3650821.000	249.300
1465	200 DS	Brittle Bush	0.6	1.0	756362.900	3650823.000	249.500
1466	201 CR	Creosote	1.2	1.9	756357.400	3650820.000	249.300
1467	202 CR	Creosote	1.4	2.3	756359.400	3650824.000	249.200
1468	204 B1	Stick Bush	0.4	0.7	756363.500	3650825.000	249.300
1469	205 WB	White Burr Sage	0.6	0.9	756364.400	3650828.000	249.300
1470	206 CR	Creosote	1.2	2.5	756366.900	3650825.000	249.400
1471	208 DS	Brittle Bush	0.6	1.0	756366.500	3650823.000	249.300
1472	209 CP	Cholla	1.7	2.0	756365.600	3650818.000	249.300
1473	212 S1	Sage	2.2	3.3	756367.000	3650819.000	249.300
1474	213 S1	Sage	2.0	2.4	756369.100	3650820.000	249.300
1475	214 B1	Stick Bush	0.5	1.3	756371.200	3650823.000	249.500
1476	215 CR	Creosote	1.3	2.6	756374.400	3650825.000	249.600
1477	216 CR	Creosote	0.9	1.1	756371.800	3650832.000	249.600
1478	217 CR	Creosote	1.2	2.3	756366.700	3650833.000	249.800
1479	218 WB	White Burr Sage	0.5	1.1	756362.900	3650834.000	249.600
1480	219 DS	Brittle Bush	0.8	1.2	756362.500	3650836.000	249.300
1481	220 DS	Brittle Bush	0.9	1.1	756363.800	3650837.000	249.300
1482	221 CR	Creosote	1.0	1.0	756364.400	3650837.000	249.300
1483	222 B1	Stick Bush	0.4	0.7	756365.100	3650839.000	249.300
1484	223 AL	Anderson Lycium	1.1	1.1	756365.900	3650839.000	249.300
1485	225 CR	Creosote	0.7	1.1	756368.600	3650838.000	249.300
1486	226 CR	Creosote	0.8	1.4	756368.400	3650842.000	249.300
1487	227 CR	Creosote	0.7	1.0	756366.700	3650842.000	249.400
1488	228 AL	Anderson Lycium	0.8	0.8	756366.000	3650841.000	249.900
1489	229 WB	White Burr Sage	0.4	0.6	756366.000	3650842.000	249.900
1490	230 WB	White Burr Sage	0.5	0.8	756367.100	3650844.000	249.900
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Number	Plant Name	Species	Height	Width	East	North	Elevation
1491	231 WB	White Burr Sage	0.4	0.6	756366.200	3650846.000	249.900
1492	233 WB	White Burr Sage	0.5	0.8	756367.300	3650847.000	249.900
1493	235 WB	White Burr Sage	0.3	0.5	756367.400	3650849.000	249.900
1494	236 CR	Creosote	0.5	0.6	756368.400	3650850.000	249.800
1495	240 CR	Creosote	0.7	0.9	756362.900	3650866.000	249.700
1496	242 CR	Creosote	0.8	1.0	756349.500	3650873.000	249.300
1497	300 CR	Creosote	0.6	1.2	756384.300	3650872.000	249.000
1498	301 CR	Creosote	0.7	0.9	756387.000	3650869.000	249.400
1499	303 CR	Creosote	0.6	0.9	756386.900	3650875.000	249.300
1500	305 CR	Creosote	0.9	2.2	756412.400	3650866.000	249.300
1501	306 CR	Creosote	1.5	2.3	756417.900	3650872.000	249.500
1502	307 DS	Brittle Bush	0.8	1.1	756418.800	3650872.000	249.300
1503	308 CR	Creosote	1.0	2.0	756420.100	3650867.000	249.500
1504	310 CR	Creosote	0.5	0.7	756417.000	3650863.000	249.400
1505	311 CR	Creosote	0.7	0.8	756414.900	3650858.000	249.400
1506	313 WB	White Burr Sage	0.4	0.8	756413.600	3650861.000	249.300
1507	316 WB	White Burr Sage	0.5	0.8	756410.200	3650861.000	249.300
1508	317 WB	White Burr Sage	0.4	0.7	756409.200	3650859.000	249.200
1509	318 CR	Creosote	1.3	1.8	756407.400	3650861.000	249.200
1510	319 CR	Creosote	1.1	2.0	756411.700	3650856.000	249.300
1511	320 CR	Creosote	1.0	2.1	756406.300	3650857.000	249.200
1512	321 YP	Yellow Paloverde	3.0	3.0	756405.900	3650854.000	249.200
1513	324 CR	Creosote	1.1	1.5	756403.400	3650855.000	249.300
1514	325 CR	Creosote	0.8	1.1	756391.800	3650858.000	249.600
1515	328 CR	Creosote	0.6	1.1	756376.900	3650860.000	249.500
1516	330 CR	Creosote	1.1	1.5	756377.000	3650854.000	249.500
1517	333 CR	Creosote	0.8	1.1	756371.200	3650853.000	249.700
1518	336 CR	Creosote	0.8	0.9	756372.600	3650851.000	249.700
1519	400 WB	White Burr Sage	0.3	0.6	756367.600	3650852.000	249.100
1520	401 CR	Creosote	0.6	0.6	756386.400	3650852.000	249.300
1521	402 CR	Creosote	1.7	2.2	756408.800	3650849.000	249.300
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Number	Plant Name	Species	Height	Width	East	North	Elevation
1522	403 B1	Stick Bush	0.5	1.2	756408.600	3650847.000	249.300
1523	404 AL	Anderson Lycium	0.6	1.1	756406.800	3650848.000	249.300
1524	406 DS	Brittle Bush	0.5	0.6	756404.700	3650848.000	249.400
1525	409 WB	White Burr Sage	0.5	1.1	756404.600	3650849.000	249.300
1526	410 WB	White Burr Sage	0.3	1.7	756402.800	3650849.000	249.300
1527	416 CR	Creosote	1.0	1.7	756402.100	3650850.000	249.600
1528	418 DS	Brittle Bush	0.5	0.7	756402.200	3650848.000	249.800
1529	419 AL	Anderson Lycium	1.1	1.3	756402.500	3650847.000	249.800
1530	420 AL	Anderson Lycium	0.9	0.7	756401.600	3650846.000	249.900
1531	421 DS	Brittle Bush	0.6	0.7	756401.800	3650843.000	249.900
1532	422 B1	Stick Bush	0.5	1.2	756400.700	3650842.000	250.000
1533	423 CR	Creosote	1.1	1.9	756400.700	3650841.000	249.900
1534	424 AL	Anderson Lycium	1.0	1.1	756400.600	3650846.000	249.900
1535	425 AL	Anderson Lycium	0.7	0.7	756401.600	3650845.000	249.800
1536	427 CR	Creosote	1.2	2.2	756396.800	3650845.000	249.900
1537	428 WP	Catclaw	0.5	1.0	756398.100	3650842.000	249.900
1538	431 BP	Blue Paloverde	1.3	1.2	756395.600	3650841.000	249.900
1539	432 YP	Yellow Paloverde	2.6	4.2	756394.900	3650841.000	249.900
1540	433 BP	Blue Paloverde	1.5	3.0	756393.000	3650841.000	249.900
1541	436 DS	Brittle Bush	1.0	1.1	756394.100	3650839.000	249.800
1542	436 AL	Anderson Lycium	1.1	1.3	756388.600	3650841.000	249.800
1543	436 CR	Creosote	1.4	1.7	756385.600	3650837.000	249.800
1544	436 YP	Yellow Paloverde	3.0	3.0	756386.500	3650835.000	249.800
1545	442 CR	Creosote	1.4	2.1	756384.300	3650835.000	249.800
1546	450 YP	Yellow Paloverde	3.2	3.5	756386.200	3650833.000	248.800
1547	100 DS	Brittle Bush	0.9	1.2	756385.800	3650831.000	249.510
1548	101 DS	Brittle Bush	0.7	1.3	756388.400	3650833.000	249.222
1549	102 B1	Stick Bush	0.4	1.4	756383.600	3650829.000	249.266
1550	103 CR	Creosote	1.5	3.0	756383.100	3650830.000	249.653
1551	104 YP	Yellow Paloverde	4.0	4.2	756379.200	3650827.000	249.619
1552	105 WB	White Burr Sage	0.5	0.9	756377.700	3650826.000	249.553
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Number	Plant Name	Species	Height	Width	East	North	Elevation
1553	106 AL	Anderson Lycium	0.8	0.7	756377.300	3650825.000	249.433
1554	108 S1	Sage	2.4	3.8	756378.800	3650837.000	249.466
1555	109 CR	Creosote	1.1	1.5	756412.100	3650851.000	249.317
1556	110 WB	White Burr Sage	0.5	1.1	756412.400	3650846.000	249.551
1557	111 WB	White Burr Sage	0.4	0.6	756413.600	3650848.000	249.505
1558	112 WB	White Burr Sage	0.3	0.8	756414.300	3650848.000	249.546
1559	113 CR	Creosote	0.9	1.5	756417.300	3650852.000	249.477
1560	113 WB	White Burr Sage	0.3	0.5	756405.100	3650843.000	249.569
1561	114 WB	White Burr Sage	0.4	0.7	756404.900	3650842.000	249.627
1562	115 WB	White Burr Sage	0.4	0.8	756403.300	3650842.000	249.452
1563	115 WB	White Burr Sage	0.5	1.0	756406.200	3650842.000	249.925
1564	116 WB	White Burr Sage	0.3	0.6	756407.500	3650842.000	249.968
1565	117 CC	Catclaw	4.4	4.4	756408.800	3650842.000	250.080
1566	118 CR	Creosote	0.8	1.6	756409.100	3650844.000	250.282
1567	119 CR	Creosote	1.4	2.0	756412.700	3650839.000	250.325
1568	120 CR	Creosote	0.7	1.5	756410.600	3650840.000	250.546
1569	121 WB	White Burr Sage	0.4	0.8	756408.600	3650840.000	250.491
1570	122 WB	White Burr Sage	0.4	0.8	756407.100	3650839.000	250.707
1571	123 WB	White Burr Sage	0.4	0.7	756406.100	3650839.000	250.395
1572	124 CR	Creosote	0.9	1.8	756407.400	3650838.000	250.394
1573	125 CR	Creosote	0.9	2.3	756405.100	3650838.000	250.356
1574	126 WB	White Burr Sage	0.4	1.1	756402.900	3650839.000	250.654
1575	127 BP	Blue Paloverde	1.4	1.0	756400.900	3650839.000	250.393
1576	128 WB	White Burr Sage	0.4	0.6	756400.000	3650838.000	250.340
1577	129 B1	Stick Bush	0.5	0.7	756400.300	3650839.000	250.600
1578	130 DS	Brittle Bush	0.9	1.6	756395.900	3650840.000	250.215
1579	131 WB	White Burr Sage	0.3	0.6	756398.900	3650838.000	250.364
1580	132 WB	White Burr Sage	0.4	0.6	756399.400	3650838.000	250.169
1581	133 CR	Creosote	0.6	1.0	756408.200	3650831.000	250.387
1582	134 CR	Creosote	0.7	1.0	756406.300	3650826.000	249.879
1583	135 DS	Brittle Bush	0.2	0.4	756397.300	3650838.000	249.974
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Number	Plant Name	Species	Height	Width	East	North	Elevation
1584	136 DS	Brittle Bush	0.4	0.6	756396.300	3650836.000	249.975
1585	137 CR	Creosote	1.1	1.9	756398.200	3650835.000	250.263
1586	138 DS	Brittle Bush	0.4	0.5	756394.300	3650834.000	250.220
1587	139 WB	White Burr Sage	0.5	1.0	756393.000	3650834.000	250.153
1588	140 DS	Brittle Bush	0.5	0.6	756392.400	3650834.000	249.758
1589	141 CR	Creosote	1.4	2.6	756391.900	3650830.000	249.780
1590	142 DS	Brittle Bush	0.6	0.9	756388.600	3650828.000	249.694
1591	143 DS	Brittle Bush	0.5	0.8	756388.000	3650826.000	249.788
1592	200 DS	Brittle Bush	0.6	1.0	756387.000	3650827.000	249.647
1593	201 DP	Desert Peach	0.8	1.2	756382.400	3650826.000	249.756
1594	202 DS	Brittle Bush	0.7	0.8	756383.300	3650825.000	249.560
1595	203 BP	Blue Paloverde	2.4	2.0	756382.300	3650825.000	249.747
1596	204 CR	Creosote	1.3	3.0	756383.000	3650824.000	249.612
1597	205 DS	Brittle Bush	0.6	0.9	756380.400	3650823.000	249.708
1598	206 WB	White Burr Sage	0.5	1.3	756378.300	3650822.000	250.026
1599	208 WB	White Burr Sage	0.4	0.9	756377.300	3650821.000	249.706
1600	209 CR	Creosote	1.0	2.0	756376.700	3650820.000	249.827
1601	210 CR	Creosote	1.1	2.2	756373.900	3650818.000	249.654
1602	211 DS	Brittle Bush	0.7	1.1	756372.100	3650816.000	249.758
1603	212 S1	Sage	2.3	2.1	756371.600	3650817.000	249.709
1604	213 SC	Saguaro Cactus	9.5	2.0	756369.400	3650817.000	249.995
1605	214 CR	Creosote	1.1	2.4	756367.600	3650811.000	249.883
1606	215 CR	Creosote	1.2	2.1	756364.800	3650809.00	250.174
1607	216 DS	Brittle Bush	0.8	1.3	756365.100	3650814.000	250.037
1608	217 CR	Creosote	0.8	1.4	756377.300	3650811.000	250.174
1609	218 CR	Creosote	1.3	1.6	756381.800	3650807.000	250.037
1610	219 CR	Creosote	0.5	1.0	756387.300	3650815.000	249.823
1611	220 CR	Creosote	0.5	0.9	756391.900	3650816.000	249.758
1612	221 CR	Creosote	0.9	1.4	756392.900	3650819.000	249.739
1613	222 CR	Creosote	0.5	0.9	756397.000	3650816.000	250.164
1614	223 CR	Creosote	0.7	1.5	756394.800	3650825.000	249.758
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Number	Plant Name	Species	Height	Width	East	North	Elevation
1615	224 WB	White Burr Sage	0.4	0.9	756412.900	3650843.000	249.875
1616	225 DS	Brittle Bush	0.7	1.3	756414.100	3650844.000	249.825
1617	226 CC	Catclaw	2.6	3.8	756414.900	3650844.000	249.784
1618	227 CR	Creosote	1.2	1.6	756416.800	3650840.000	249.991
1619	228 CR	Creosote	0.6	1.0	756412.900	3650834.000	250.255
1620	229 CR	Creosote	0.6	0.8	756371.300	3650837.000	250.224
1621	230 AL	Anderson Lycium	0.7	0.4	756365.800	3650840.000	250.370
1622	231 CR	Creosote	0.7	1.0	756364.400	3650846.000	250.294
1623	232 CR	Creosote	1.2	2.1	756367.800	3650821.000	249.921
1624	233 CR	Creosote	0.5	0.4	756397.500	3650818.000	249.966
1625	500 CR	Creosote	0.3	0.6	756085.600	3650845.000	247.116
1626	501 CR	Creosote	0.6	1.3	756082.900	3650842.000	246.941
1627	502 WB	White Burr Sage	0.5	1.1	756085.900	3650838.000	246.345
1628	503 AL	Anderson Lycium	0.5	0.5	756085.400	3650838.000	246.293
1629	504 WB	White Burr Sage	0.4	0.7	756085.300	3650838.000	246.264
1630	505 WB	White Burr Sage	0.5	1.0	756087.900	3650839.000	246.223
1631	506 WB	White Burr Sage	0.5	0.9	756089.400	3650841.000	246.362
1632	507 CR	Creosote	1.1	1.2	756083.600	3650834.000	246.212
1633	508 WB	White Burr Sage	0.6	1.2	756084.100	3650833.000	246.334
1634	509 CR	Creosote	1.2	1.4	756082.900	3650833.000	246.239
1635	510 CR	Creosote	0.9	1.1	756082.600	3650834.000	246.185
1636	511 CR	Creosote	0.8	0.7	756082.900	3650834.000	246.236
1637	512 CR	Creosote	1.1	1.7	756079.400	3650835.000	246.560
1638	513 WB	White Burr Sage	0.5	0.8	756079.900	3650833.000	246.100
1639	514 WB	White Burr Sage	0.5	0.8	756086.700	3650833.000	246.196
1640	515 WB	White Burr Sage	0.6	0.8	756087.100	3650834.000	246.227
1641	516 YP	Yellow Paloverde	2.5	4.0	756088.300	3650832.000	245.965
1642	517 CC	Catclaw	4.5	4.6	756091.100	3650831.000	246.180
1643	518 CR	Creosote	0.8	1.1	756089.100	3650834.000	246.295
1644	519 CR	Creosote	0.7	0.8	756090.300	3650834.000	246.260
1645	520 WB	White Burr Sage	0.4	0.6	756090.800	3650834.000	246.264
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Number	Plant Name	Species	Height	Width	East	North	Elevation
1646	521 CR	Creosote	0.8	1.6	756089.900	3650838.000	246.349
1647	522 WB	White Burr Sage	0.5	0.9	756089.100	3650838.000	246.347
1648	523 DS	Brittle Bush	0.5	0.6	756089.100	3650838.000	246.135
1649	524 YP	Yellow Paloverde	3.1	3.1	756097.500	3650837.000	246.253
1650	525 CR	Creosote	1.0	1.2	756097.400	3650837.000	246.287
1651	526 CR	Creosote	1.0	1.5	756096.000	3650835.000	246.259
1652	527 WB	White Burr Sage	0.4	0.8	756094.800	3650834.000	246.281
1653	528 WB	White Burr Sage	0.4	0.7	756095.100	3650835.000	246.309
1654	529 WB	White Burr Sage	0.4	0.9	756096.900	3650836.000	246.269
1655	530 CR	Creosote	1.0	1.6	756094.600	3650839.000	246.394
1656	531 CR	Creosote	1.0	1.5	756095.400	3650839.000	246.423
1657	532 WB	White Burr Sage	0.6	1.5	756093.900	3650841.000	246.268
1658	533 WB	White Burr Sage	0.5	1.2	756092.600	3650842.000	246.331
1659	534 CR	Creosote	1.0	1.5	756091.900	3650843.000	246.411
1660	535 WB	White Burr Sage	0.4	0.8	756097.000	3650842.000	246.351
1661	536 WB	White Burr Sage	0.5	1.0	756097.600	3650843.000	246.429
1662	537 CR	Creosote	1.0	1.6	756100.600	3650842.000	246.403
1663	538 CR	Creosote	1.2	1.6	756099.800	3650844.000	246.501
1664	539 CR	Creosote	1.0	1.4	756100.800	3650843.000	246.523
1665	540 WB	White Burr Sage	0.4	0.9	756100.900	3650845.000	246.461
1666	541 WB	White Burr Sage	0.3	0.6	756103.600	3650843.000	246.357
1667	542 WB	White Burr Sage	0.5	0.8	756103.600	3650841.000	246.435
1668	543 WB	White Burr Sage	0.4	0.8	756104.900	3650841.000	246.425
1669	544 WB	White Burr Sage	0.5	0.9	756104.700	3650845.000	246.397
1670	545 WB	White Burr Sage	0.5	0.9	756102.200	3650840.000	246.372
1671	546 WB	White Burr Sage	0.4	0.8	756102.300	3650838.000	246.379
1672	547 WB	White Burr Sage	0.4	0.6	756101.200	3650839.000	246.376
1673	548 DS	Brittle Bush	0.4	0.7	756099.300	3650839.000	246.259
1674	549 WB	White Burr Sage	0.4	0.6	756100.800	3650837.000	246.362
1675	550 WB	White Burr Sage	0.3	0.7	756085.800	3650829.000	246.080
1676	551 WB	White Burr Sage	0.4	0.8	756085.800	3650830.000	246.129
(Sheet 54 of 59)							



Number	Plant Name	Species	Height	Width	East	North	Elevation
1677	552 YP	Yellow Paloverde	1.6	1.7	756083.800	3650827.000	246.059
1678	553 WB	White Burr Sage	0.5	1.1	756083.700	3650827.000	246.061
1679	554 WB	White Burr Sage	0.5	1.0	756084.400	3650825.000	246.133
1680	555 WB	White Burr Sage	0.5	0.9	756082.500	3650826.000	246.105
1681	556 CR	Creosote	1.0	1.6	756079.200	3650825.000	246.118
1682	557 WB	White Burr Sage	0.4	0.7	756078.900	3650828.000	246.161
1683	558 WB	White Burr Sage	0.4	0.6	756077.600	3650830.000	246.152
1684	559 WB	White Burr Sage	0.3	0.6	756083.100	3650829.000	246.135
1685	560 CR	Creosote	1.0	1.8	756083.600	3650829.000	246.200
1686	561 DS	Brittle Bush	0.5	0.7	756084.200	3650829.000	246.005
1687	562 WB	White Burr Sage	0.4	0.7	756084.300	3650828.000	246.032
1688	563 CR	Creosote	0.8	1.5	756087.100	3650825.000	246.235
1689	564 WB	White Burr Sage	0.3	0.4	756087.000	3650826.000	246.158
1690	565 CR	Creosote	1.0	1.6	756088.100	3650828.000	246.238
1691	566 WB	White Burr Sage	0.6	1.1	756082.900	3650823.000	246.161
1692	567 CR	Creosote	1.0	2.0	756085.400	3650820.000	246.194
1693	568 CR	Creosote	1.0	1.5	756091.500	3650822.000	246.179
1694	569 WB	White Burr Sage	0.5	1.0	756080.500	3650824.000	246.108
1695	570 WB	White Burr Sage	0.3	0.4	756079.500	3650824.000	246.030
1696	571 WB	White Burr Sage	0.4	0.7	756078.800	3650823.000	246.020
1697	572 CR	Creosote	1.1	1.6	756079.000	3650825.000	246.104
1698	573 WB	White Burr Sage	0.5	0.8	756074.600	3650824.000	245.989
1699	574 WB	White Burr Sage	0.4	0.7	756073.800	3650823.000	246.048
1700	575 WB	White Burr Sage	0.6	1.1	756077.200	3650821.000	246.007
1701	576 WB	White Burr Sage	0.4	0.7	756076.600	3650820.000	246.051
1702	577 YP	Yellow Paloverde	2.5	2.3	756076.800	3650820.000	246.034
1703	578 B2	Unidentified	0.7	0.6	756076.500	3650820.000	245.979
1704	579 WB	White Burr Sage	0.4	0.8	756073.100	3650820.000	245.981
1705	580 CR	Creosote	0.9	1.4	756073.200	3650819.000	246.017
1706	581 WB	White Burr Sage	0.5	0.9	756070.900	3650820.000	245.975
1707	582 CR	Creosote	0.4	0.7	756069.900	3650821.000	246.011
(Sheet 55 of 59)							

Number	Plant Name	Species	Height	Width	East	North	Elevation
1708	583 WB	White Burr Sage	0.5	0.9	756071.900	3650819.000	246.004
1709	584 CR	Creosote	1.0	1.5	756072.100	3650817.000	246.096
1710	585 WB	White Burr Sage	0.4	0.8	756071.300	3650817.000	245.947
1711	586 WB	White Burr Sage	0.4	0.6	756071.400	3650817.000	246.001
1712	587 CR	Creosote	0.9	1.5	756072.700	3650817.000	246.100
1713	588 WB	White Burr Sage	0.4	0.7	756073.300	3650816.000	245.989
1714	589 CR	Creosote	0.9	1.8	756078.600	3650817.000	246.035
1715	590 WB	White Burr Sage	0.5	0.7	756078.400	3650817.000	246.041
1716	591 CR	Creosote	0.8	1.3	756080.100	3650816.000	245.944
1717	592 WB	White Burr Sage	0.5	0.4	756078.800	3650817.000	246.069
1718	593 WB	White Burr Sage	0.5	0.7	756085.800	3650817.000	246.143
1719	594 WB	White Burr Sage	0.3	0.4	756089.600	3650820.000	246.103
1720	595 WB	White Burr Sage	0.3	0.6	756069.100	3650817.000	245.903
1721	596 WB	White Burr Sage	0.4	0.8	756068.700	3650816.000	245.984
1722	597 CR	Creosote	0.7	1.2	756064.100	3650816.000	245.843
1723	598 WB	White Burr Sage	0.4	0.5	756041.800	3650818.000	245.882
1724	599 WB	White Burr Sage	0.4	0.6	756040.100	3650819.000	245.915
1725	600 WB	White Burr Sage	0.6	1.1	756095.800	3650845.000	246.395
1726	601 WB	White Burr Sage	0.5	1.1	756096.800	3650845.000	246.361
1727	602 WB	White Burr Sage	0.4	0.9	756097.600	3650846.000	246.402
1728	603 WB	White Burr Sage	0.5	1.3	756098.300	3650847.000	246.431
1729	604 WB	White Burr Sage	0.5	1.1	756099.100	3650847.000	246.354
1730	605 CR	Creosote	0.9	1.3	756098.500	3650848.000	246.417
1731	606 WB	White Burr Sage	0.6	0.7	756099.400	3650844.000	246.384
1732	607 WB	White Burr Sage	0.4	0.9	756098.600	3650844.000	246.404
1733	608 WB	White Burr Sage	0.5	0.8	756099.100	3650844.000	246.390
1734	609 WB	White Burr Sage	0.4	0.6	756090.100	3650841.000	246.290
1735	610 WB	White Burr Sage	0.3	0.4	756088.800	3650843.000	246.491
1736	611 CR	Creosote	0.7	1.1	756072.800	3650860.000	248.523
1737	613 CR	Creosote	1.0	1.3	756062.800	3650860.000	247.955
1738	614 CR	Creosote	1.0	1.5	756067.500	3650842.000	247.254
							(Sheet 56 of 59)

Number	Plant Name	Species	Height	Width	East	North	Elevation
1739	615 WB	White Burr Sage	0.6	1.4	756101.000	3650853.000	246.480
1740	616 WB	White Burr Sage	0.5	1.2	756104.900	3650852.000	246.592
1741	617 WB	White Burr Sage	0.4	0.8	756108.800	3650852.000	246.533
1742	618 CR	Creosote	1.5	1.5	756107.900	3650851.000	246.468
1743	619 WB	White Burr Sage	0.4	0.9	756105.300	3650851.000	246.507
1744	620 CR	Creosote	0.8	1.0	756107.300	3650850.000	246.483
1745	621 WB	White Burr Sage	0.4	0.7	756109.600	3650849.000	246.582
1746	622 WB	White Burr Sage	0.5	1.0	756107.900	3650848.000	246.473
1747	623 CR	Creosote	1.0	1.0	756104.900	3650850.000	246.547
1748	624 WB	White Burr Sage	0.6	1.1	756104.400	3650851.000	246.559
1749	625 WB	White Burr Sage	0.5	0.9	756102.500	3650850.000	246.552
1750	626 WB	White Burr Sage	0.4	0.6	756100.400	3650851.000	246.493
1751	627 WB	White Burr Sage	0.5	1.2	756100.400	3650850.000	246.433
1752	628 WB	White Burr Sage	0.4	0.8	756103.300	3650847.000	246.527
1753	629 WB	White Burr Sage	0.3	0.7	756105.100	3650848.000	246.453
1754	630 CR	Creosote	0.9	1.5	756102.600	3650847.000	246.499
1755	531 CR	Creosote	0.9	1.3	756057.600	3650875.000	247.522
1756	632 WB	White Burr Sage	0.5	0.6	756057.200	3650872.000	247.494
1757	633 WB	White Burr Sage	0.3	0.6	756056.400	3650872.000	247.502
1758	634 WB	White Burr Sage	0.4	0.5	756054.000	3650869.000	247.246
1759	635 WB	White Burr Sage	0.3	0.5	756052.800	3650868.000	247.176
1760	636 CR	Creosote	0.9	1.2	756053.000	3650868.000	247.147
1761	637 WB	White Burr Sage	0.3	0.5	756053.400	3650866.000	247.110
1762	638 CR	Creosote	0.8	1.4	756053.000	3650864.000	247.086
1763	639 B1	Stick Bush	0.3	0.9	756051.500	3650862.000	247.015
1764	640 CR	Creosote	0.6	0.9	756055.300	3650861.000	247.198
1765	641 CR	Creosote	0.6	0.9	756053.100	3650860.000	247.088
1766	642 WB	White Burr Sage	0.4	0.8	756052.600	3650859.000	247.067
1767	643 CR	Creosote	1.0	1.6	756050.000	3650858.000	246.901
1768	644 CR	Creosote	0.9	1.2	756051.600	3650856.000	246.798
1769	645 CR	Creosote	1.2	2.5	756058.100	3650858.000	247.449
(Sheet 57 of 59)							

Number	Plant Name	Species	Height	Width	East	North	Elevation
1770	646 CR	Creosote	0.5	0.7	756057.500	3650854.000	247.295
1771	647 B2	Unidentified	0.6	0.7	756059.500	3650853.000	247.415
1772	648 CR	Creosote	1.0	1.6	756049.600	3650856.000	246.800
1773	649 CR	Creosote	1.5	2.6	756047.900	3650853.000	246.967
1774	650 CR	Creosote	0.7	1.0	756052.300	3650852.000	246.683
1775	651 WB	White Burr Sage	0.4	0.6	756041.300	3650821.000	245.967
1776	652 WB	White Burr Sage	0.4	0.7	756041.400	3650824.000	245.972
1777	653 WB	White Burr Sage	0.4	0.6	756041.700	3650826.000	246.046
1778	654 WB	White Burr Sage	0.3	0.6	756042.300	3650828.000	246.099
1779	655 WB	White Burr Sage	0.3	0.5	756045.300	3650833.000	246.193
1780	656 WB	White Burr Sage	0.4	0.5	756044.600	3650828.000	246.073
1781	657 CR	Creosote	0.8	1.6	756044.100	3650831.000	246.158
1782	658 WB	White Burr Sage	0.2	0.4	756045.400	3650832.000	246.174
1783	659 WB	White Burr Sage	0.3	0.4	756045.900	3650834.000	246.218
1784	660 WB	White Burr Sage	0.4	0.5	756048.500	3650833.000	246.232
1785	661 WB	White Burr Sage	0.4	0.8	756047.600	3650836.000	246.375
1786	662 CR	Creosote	1.1	1.4	756047.800	3650837.000	246.345
1787	663 WB	White Burr Sage	0.3	0.5	756046.600	3650840.000	246.445
1788	664 WB	White Burr Sage	0.2	0.3	756048.400	3650841.000	246.415
1789	665 WB	White Burr Sage	0.5	1.0	756049.700	3650840.000	246.382
1790	666 WB	White Burr Sage	0.3	0.4	756048.700	3650842.000	246.520
1791	667 CR	Creosote	0.7	0.9	756051.900	3650844.000	246.497
1792	668 WB	White Burr Sage	0.6	1.2	756052.500	3650845.000	246.605
1793	669 CR	Creosote	1.0	1.2	756051.600	3650847.000	246.620
1794	670 CR	Creosote	1.1	1.5	756051.200	3650847.000	246.610
1795	671 WB	White Burr Sage	0.3	0.4	756055.100	3650848.000	246.770
1796	672 B1	Stick Bush	0.7	1.0	756059.200	3650844.000	247.010
1797	673 WB	White Burr Sage	0.35	1.0	756072.800	3650818.000	246.097
1798	674 WB	White Burr Sage	0.4	0.7	756078.600	3650819.000	245.992
1799	675 WB	White Burr Sage	0.5	0.8	756080.000	3650820.000	246.080
1800	676 WB	White Burr Sage	0.4	0.8	756080.600	3650821.000	245.987
(Sheet 58 of 59)							

Number	Plant Name	Species	Height	Width	East	North	Elevation
1801	677 CR	Creosote	0.9	2.1	756086.600	3650830.000	246.213
1802	678 WB	White Burr Sage	0.3	0.5	756094.000	3650829.000	246.189
1803	679 WB	White Burr Sage	0.4	0.4	756095.700	3650832.000	246.242
1804	680 WB	White Burr Sage	0.3	0.4	756096.100	3650832.000	246.266
1805	681 WB	White Burr Sage	0.5	1.0	756097.300	3650834.000	246.257
1806	682 WB	White Burr Sage	0.9	0.8	756098.100	3650835.000	246.365
1807	683 CR	Creosote	1.1	1.5	756099.400	3650836.000	246.396
1808	684 CR	Creosote	0.6	1.8	756092.500	3650844.000	246.437
1809	685 CR	Creosote	1.4	1.7	756052.300	3650845.000	246.594
(Sheet 59 of 59)							

# Appendix H Survey Data

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**Table H1**  
**Fiducial Point Locations**

Point Number	Coords East (m)	North (M)	Deg	Lat Min	Sec	Deg	Long Min	Sec	Elev. (m)	Comment
2	756400.94	3650792.57	32	58	1.6361	114	15	24.4127	250.06	ARL SP1E
4	756361.23	3650792.36	32	58	1.6629	114	15	25.9407	249.50	ARL SP2E
3	756380.29	3650782.29	32	58	1.3200	114	15	25.2175	249.71	ARL SP3E
153	756433.01	3650841.05	32	58	3.1816	114	15	23.1299	250.61	CL-E1 GAREF
111	756008.90	3650839.81	32	58	3.4997	114	15	39.4503	247.43	CL-W1 GAREFPA
156	756433.54	3650811.10	32	58	2.2096	114	15	23.1397	250.51	CR-1E REF
108	756008.66	3650869.51	32	58	4.4634	114	15	39.4298	246.25	CR-2W REFPA
155	756462.90	3650820.67	32	58	2.4950	114	15	22.0004	250.64	CR-3E REF
114	755979.95	3650819.22	32	58	2.8561	114	15	40.5847	247.23	CR-3W REFB#
149	756463.56	3650860.65	32	58	3.7915	114	15	21.9350	251.09	CR-4E REF
150	756432.38	3650871.26	32	58	4.1619	114	15	23.1237	250.74	CR-4E REF
107	755978.97	3650859.07	32	58	4.1497	114	15	40.5826	246.08	CR-4W REFPA
47	756078.40	3650876.04	32	58	4.6163	114	15	36.7396	249.42	NP-1W GA
167	756365.23	3650892.00	32	58	4.8916	114	15	25.6868	250.45	NP-2E GA
161	756385.44	3650902.17	32	58	5.2044	114	15	24.8991	250.81	NP-3E REF
66	756058.42	3650885.48	32	58	4.9392	114	15	37.4989	248.13	NP-3W REF
112	756039.01	3650875.01	32	58	4.6160	114	15	38.2562	247.32	NP-W2 GAREFPA
14	756453.19	3650840.37	32	58	3.1425	114	15	22.3540	250.92	OR-CL-E2 GAREFPAN
15	756473.35	3650840.53	32	58	3.1303	114	15	21.5782	251.00	OR-CL-E3 REFPAN
16	756493.38	3650840.03	32	58	3.0972	114	15	20.8080	251.22	OR-CL-E4 REFPAN
106	755988.96	3650839.17	32	58	3.4957	114	15	40.2180	245.55	OR-CL-W2 GAREF
104	755969.25	3650839.24	32	58	3.5148	114	15	40.9764	245.57	OR-CL-W3 REF
105	755949.57	3650839.10	32	58	3.5269	114	15	41.7336	245.67	OR-CL-W4 REF
103	755315.11	3650822.52	32	58	3.5239	114	16	6.1635	242.18	ORANGE
100	755530.31	3650828.74	32	58	3.5443	114	15	57.8766	243.15	ORANGE
69	756187.33	3651003.07	32	58	8.6446	114	15	32.4210	252.38	ORANGE
98	755716.41	3650987.94	32	58	8.5514	114	15	50.5566	245.72	ORANGE
102	755429.98	3650826.69	32	58	3.5624	114	16	1.7393	242.19	ORANGE
45	756110.08	3650862.00	32	58	4.1341	114	15	35.5348	246.50	ORANGE GA
44	756109.74	3650820.87	32	58	2.8003	114	15	35.5888	247.44	ORANGE GA

(Sheet 1 of 3)

**Table H1 (Continued)**

Point Number	Coords East (m)	North (M)	Deg	Lat Min	Sec	Deg	Long Min	Sec	Elev. (m)	Comment
12	756332.08	3650823.77	32	58	2.7063	114	15	27.0308	249.66	ORANGE GS+PANEL
11	756333.20	3650863.92	32	58	4.0078	114	15	26.9477	249.79	ORANGE GS+PANEL
21	756774.66	3650858.33	32	58	3.4527	114	15	9.9667	253.88	ORANGE PAN
20	756563.81	3650692.87	32	57	58.2641	114	15	18.2458	250.47	ORANGE PAN
24	757075.49	3650866.75	32	58	3.4709	114	14	58.3829	256.67	ORANGE PAN
22	756976.66	3650863.44	32	58	3.4474	114	15	2.1889	255.65	ORANGE PAN
19	756585.73	3650852.36	32	58	3.4192	114	15	17.2422	252.10	ORANGE PAN
92	755748.99	3650663.76	32	57	58.0086	114	15	49.6272	246.37	ORANGE PAN
93	755682.20	3650831.14	32	58	3.4943	114	15	52.0298	243.87	ORANGE PAN
18	756605.23	3651004.26	32	58	8.3297	114	15	16.3395	253.37	ORANGE PAN
17	756179.63	3650681.51	32	57	58.2207	114	15	33.0394	247.66	ORANGE PAN
31	756876.13	3650861.44	32	58	3.4676	114	15	6.0589	254.44	ORANGE PANEL
97	755661.48	3650821.04	32	58	3.1841	114	15	52.8372	243.65	ORANGE STAKE
96	755661.87	3650841.04	32	58	3.8324	114	15	52.8021	243.90	ORANGE STAKE
94	755710.66	3650821.29	32	58	3.1506	114	15	50.9447	244.01	ORANGE STAKE
95	755712.96	3650841.40	32	58	3.8009	114	15	50.8360	244.10	ORANGE STAKE
157	756432.77	3650820.66	32	58	2.5204	114	15	23.1596	250.41	P-1E GA
151	756432.50	3650861.26	32	58	3.8376	114	15	23.1293	250.18	P-2E GA
109	756008.48	3650859.72	32	58	4.1460	114	15	39.4465	246.10	P-2W GAREFPA
154	756443.43	3650830.38	32	58	2.8267	114	15	22.7399	250.67	P-3E GA
113	756000.12	3650829.67	32	58	3.1782	114	15	39.7982	248.99	P-3W GAREFPA
152	756443.59	3650851.30	32	58	3.5050	114	15	22.7125	250.71	P-4E
110	755998.60	3650849.97	32	58	3.8379	114	15	39.8363	245.83	P-4W GAREFPA
75	756292.44	3651005.47	32	58	8.6337	114	15	28.3739	253.74	POLE 1 1
76	756293.00	3651037.18	32	58	9.6618	114	15	28.3204	253.67	POLE 2 2
77	756296.92	3651067.50	32	58	10.6418	114	15	28.1392	254.46	POLE 3 3
78	756302.36	3651097.22	32	58	11.6014	114	15	27.9001	254.29	POLE 4 4
79	756305.61	3651127.31	32	58	12.5746	114	15	27.7451	253.17	POLE 5 5
158	756400.76	3650792.86	32	58	1.6456	114	15	24.4192	250.04	SP-1E GA
42	756079.69	3650806.18	32	58	2.3491	114	15	36.7600	245.90	SP-1W GA

(Sheet 2 of 3)



**Table H1 (Concluded)**

Point Number	Coords East (m)	North (M)	Deg	Lat Min	Sec	Deg	Long Min	Sec	Elev. (m)	Comment
160	756361.82	3650792.06	32	58	1.6525	114	15	25.9185	249.52	SP-2E GA
159	756380.40	3650782.17	32	58	1.3160	114	15	25.2132	249.68	SP-3E REF
41	756060.08	3650795.60	32	58	2.0225	114	15	37.5251	245.64	SP-3W REF

*(Sheet 3 of 3)*

**Table H2**  
**Instrumentation Locations**

Point Number	Coords East (m)	North (M)	Deg	Lat Min	Sec	Deg	Long Min	Sec	Elev. (m)	Comment
260	756189.64	3650839.76	32	58	3.3455	114	15	32.4958	251.59	2CAMLOC
73	756239.87	3651019.47	32	58	9.1323	114	15	30.3828	252.75	A CRLDOWEL
71	756221.75	3651015.57	32	58	9.0209	114	15	31.0838	252.48	A CRLMOIST
242	756230.32	3651026.15	32	58	9.3571	114	15	30.7436	252.99	A TOWER A
72	756230.54	3651017.62	32	58	9.0801	114	15	30.7438	252.50	A UPDWNRAD
70	756221.18	3651015.98	32	58	9.0347	114	15	31.1056	252.50	A WESMOIST
91	756205.90	3650840.82	32	58	3.3659	114	15	31.8691	256.18	AIR CONTROL
82	756241.76	3650927.94	32	58	6.1618	114	15	30.4020	254.95	ARLMET CEILOMET
89	756230.66	3650904.46	32	58	5.4095	114	15	30.8523	252.48	ASL-ANT EAST
90	756228.79	3650905.03	32	58	5.4294	114	15	30.9238	252.37	ASL-ANT WEST
190	756326.16	3650884.74	32	58	4.6890	114	15	27.1974	250.15	B CRLDOWEL
192	756326.25	3650874.27	32	58	4.3494	114	15	27.2044	249.96	B CRLMOIST
194	756332.87	3650874.41	32	58	4.3484	114	15	26.9498	249.91	B PROBE
195	756336.90	3650880.87	32	58	4.5543	114	15	26.7883	250.13	B PROBE
197	756328.69	3650886.34	32	58	4.7387	114	15	27.0985	250.11	B PROBE
196	756332.93	3650883.88	32	58	4.6555	114	15	26.9379	250.02	B PROBE
199	756322.36	3650884.98	32	58	4.6999	114	15	27.3436	249.98	B PROBE
200	756320.16	3650884.31	32	58	4.6803	114	15	27.4289	250.00	B PROBE
198	756327.52	3650884.49	32	58	4.6796	114	15	27.1456	250.05	B PROBE
193	756332.22	3650872.16	32	58	4.2758	114	15	26.9769	249.90	B PROBE
189	756322.64	3650883.33	32	58	4.6462	114	15	27.3346	249.99	B TOWER
245	756322.64	3650883.33	32	58	4.6462	114	15	27.3346	249.99	B TOWER B
209	756320.01	3650868.67	32	58	4.1731	114	15	27.4504	249.97	B UPDWDRAD
204	756328.50	3650879.76	32	58	4.5255	114	15	27.1123	250.05	B WESG
206	756328.00	3650877.47	32	58	4.4518	114	15	27.1339	250.06	B WESG
208	756327.19	3650871.94	32	58	4.2729	114	15	27.1706	249.98	B WESG
202	756326.69	3650879.77	32	58	4.5274	114	15	27.1820	250.04	B WESG
191	756322.81	3650874.23	32	58	4.3510	114	15	27.3369	249.90	B WESMOIST
201	756326.78	3650880.59	32	58	4.5539	114	15	27.1777	250.05	B WESR

(Sheet 1 of 5)

**Table H2 (Continued)**

Point Number	Coords East (m)	North (M)	Deg	Lat Min	Sec	Deg	Long Min	Sec	Elev. (m)	Comment
207	756327.29	3650872.36	32	58	4.2864	114	15	27.1664	249.97	B WESR
203	756328.65	3650880.44	32	58	4.5475	114	15	27.1060	250.06	B WESR
205	756328.03	3650877.89	32	58	4.4652	114	15	27.1323	250.04	B WESR
219	756314.33	3650847.33	32	58	3.4855	114	15	27.6903	249.82	BF WES
217	756322.71	3650848.88	32	58	3.5288	114	15	27.3663	249.81	BF WES
218	756314.17	3650847.67	32	58	3.4967	114	15	27.6961	249.61	BF WES
225	756308.84	3650842.74	32	58	3.3414	114	15	27.9061	249.62	BF WES
223	756316.98	3650843.01	32	58	3.3432	114	15	27.5926	249.50	BF WES
221	756315.52	3650845.45	32	58	3.4235	114	15	27.6463	249.66	BF WES
216	756322.84	3650849.40	32	58	3.5455	114	15	27.3607	249.81	BF WES
212	756320.47	3650850.92	32	58	3.5967	114	15	27.4504	249.56	BF WES
210	756318.90	3650850.88	32	58	3.5969	114	15	27.5109	249.51	BF WES
211	756318.69	3650850.25	32	58	3.5766	114	15	27.5196	249.55	BF WES
215	756321.04	3650847.98	32	58	3.5009	114	15	27.4313	249.77	BF WES
213	756320.34	3650850.57	32	58	3.5856	114	15	27.4558	249.56	BF WES
222	756317.17	3650843.48	32	58	3.3582	114	15	27.5847	249.48	BF WESRAD
224	756309.60	3650843.76	32	58	3.3736	114	15	27.8758	249.65	BF WESRAD
220	756315.70	3650846.44	32	58	3.4554	114	15	27.6484	249.54	BF WESRAD
214	756320.75	3650849.11	32	58	3.5379	114	15	27.4414	249.63	BF WESRAD-5
174	756381.26	3650892.73	32	58	4.9015	114	15	25.0695	250.86	C CRL
172	756380.95	3650896.04	32	58	5.0091	114	15	25.0779	250.85	C CRL
178	756380.59	3650887.82	32	58	4.7430	114	15	25.0999	250.79	C CRL
176	756382.19	3650892.3	32	58	4.8868	114	15	25.0340	250.88	C CRL
169	756372.52	3650901.66	32	58	5.1985	114	15	25.3969	250.30	C CRLBMB
170	756373.45	3650901.32	32	58	5.1868	114	15	25.3614	250.37	C CRLBMB
179	756383.09	3650891.86	32	58	4.8717	114	15	24.9999	250.87	C CRLDOWEL
180	756383.30	3650893.23	32	58	4.9161	114	15	24.9904	250.90	C CRLRAD
171	756380.28	3650895.90	32	58	5.0052	114	15	25.1041	250.80	C CRLRAD10
173	756380.72	3650892.72	32	58	4.9018	114	15	25.0902	250.84	C CRLRAD17
175	756381.57	3650892.16	32	58	4.8830	114	15	25.0580	250.84	C CRLRAD21

*(Sheet 2 of 5)*

**Table H2 (Continued)**

Point Number	Coords East (m)	North (M)	Deg	Lat Min	Sec	Deg	Long Min	Sec	Elev. (m)	Comment
177	756380.11	3650887.81	32	58	4.7431	114	15	25.1187	250.76	C CRLRAD24
168	756366.47	3650902.74	32	58	5.2388	114	15	25.6285	250.38	C NEPH4
165	756377.90	3650889.76	32	58	4.8082	114	15	25.2017	250.77	C R
166	756380.64	3650891.01	32	58	4.8464	114	15	25.0950	250.84	C R
164	756382.94	3650885.51	32	58	4.6660	114	15	25.0121	250.74	C SHADOW
163	756385.60	3650888.74	32	58	4.7684	114	15	24.9065	250.80	C TOWER
244	756385.60	3650888.74	32	58	4.7684	114	15	24.9065	250.80	C TOWER C
162	756392.44	3650890.86	32	58	4.8315	114	15	24.6411	250.97	C UPDOWNRAD
181	756370.97	3650884.60	32	58	4.6466	114	15	25.4735	250.56	C WESMOIST
252	756189.66	3650839.74	32	58	3.3446	114	15	32.4950	251.53	CAMLOC
246	756189.83	3650839.74	32	58	3.3444	114	15	32.4885	251.58	CAMSTAKE
138	756364.79	3650828.41	32	58	2.8292	114	15	25.7675	249.75	CATI D
139	756364.67	3650828.00	32	58	2.8161	114	15	25.7725	249.77	CATI D
142	756359.00	3650826.03	32	58	2.7568	114	15	25.9929	249.76	CATI D
141	756363.04	3650828.64	32	58	2.8381	114	15	25.8347	249.57	CATI D
140	756362.87	3650829.10	32	58	2.8532	114	15	25.8407	249.57	CATI D
134	756370.94	3650822.65	32	58	2.6372	114	15	25.5367	249.76	CATI D
133	756370.43	3650822.95	32	58	2.6474	114	15	25.5562	249.73	CATI D
135	756370.93	3650822.64	32	58	2.6369	114	15	25.5371	249.76	CATI D
137	756366.79	3650829.49	32	58	2.8625	114	15	25.6897	249.92	CATI D
136	756366.66	3650829.78	32	58	2.8719	114	15	25.6941	249.91	CATI D
143	756359.04	3650825.30	32	58	2.7331	114	15	25.9918	249.79	CATI D
147	756361.44	3650819.41	32	58	2.5401	114	15	25.9057	249.59	CATI D
148	756361.86	3650818.92	32	58	2.5239	114	15	25.8899	249.55	CATI D
146	756363.68	3650821.62	32	58	2.6100	114	15	25.8172	249.52	CATI D
144	756362.38	3650823.30	32	58	2.6655	114	15	25.8654	249.46	CATI D
145	756362.68	3650822.71	32	58	2.6460	114	15	25.8547	249.46	CATI D
132	756375.66	3650804.47	32	58	2.0434	114	15	25.3732	249.80	D CRLDOWEL
117	756387.55	3650805.41	32	58	2.0638	114	15	27.9148	249.95	D CRLMOIST
120	756381.80	3650797.08	32	58	1.7984	114	15	25.1445	249.83	D NEPH3

(Sheet 3 of 5)

**Table H2 (Continued)**

Point Number	Coords East (m)	North (M)	Deg	Lat Min	Sec	Deg	Long Min	Sec	Elev. (m)	Comment
128	756374.58	3650806.44	32	58	2.1083	114	15	25.4131	249.70	D R
126	756372.91	3650807.76	32	58	2.1524	114	15	25.4759	249.70	D R
124	756373.91	3650809.05	32	58	2.1934	114	15	25.4361	249.69	D R
130	756376.02	3650804.61	32	58	2.0478	114	15	25.3593	249.82	D R
122	756370.49	3650806.73	32	58	2.1211	114	15	25.5700	249.72	D RATE
131	756376.75	3650804.51	32	58	2.0437	114	15	25.3315	249.85	D S
129	756375.22	3650806.38	32	58	2.1058	114	15	25.3884	249.75	D S
127	756373.64	3650807.63	32	58	2.1475	114	15	25.4480	249.71	D S
125	756374.46	3650808.90	32	58	2.1882	114	15	25.4153	249.71	D S
121	756377.10	3650801.32	32	58	1.9400	114	15	25.3210	249.81	D TOWER
243	756377.10	3650801.32	32	58	1.9400	114	15	25.3210	249.81	D TOWER D
123	756368.47	3650796.09	32	58	1.7778	114	15	25.6585	249.59	D TRACK
118	756386.63	3650804.38	32	58	2.0313	114	15	24.9515	249.94	D UPDOWNRAD
116	756388.95	3650811.90	32	58	2.2731	114	15	24.8544	249.99	D WESMOIST
51	756076.01	3650892.66	32	58	5.1574	114	15	36.8148	249.76	E CRLDOWEL
68	756092.30	3650892.09	32	58	5.1250	114	15	36.1886	249.67	E CRLMOIST
50	756080.74	3650894.19	32	58	5.2031	114	15	36.6312	250.02	E E
48	756087.45	3650881.68	32	58	4.7914	114	15	36.3859	249.44	E NEPH1
52	756076.00	3650898.38	32	58	5.3428	114	15	36.8096	249.87	E R
53	756080.50	3650900.97	32	58	5.4230	114	15	36.6338	250.23	E R
234	756077.38	3650878.97	32	58	4.7121	114	15	36.7760	249.60	E RAD
235	756074.42	3650881.18	32	58	4.7861	114	15	36.8876	249.49	E RAD
236	756072.79	3650886.93	32	58	4.9743	114	15	36.9447	249.39	E RAD
233	756079.55	3650882.05	32	58	4.8102	114	15	36.6892	249.76	E RAD
241	756080.74	3650894.19	32	58	5.2031	114	15	36.6312	250.02	E TOWER E
49	756078.34	3650890.61	32	58	5.0890	114	15	36.7272	249.82	E UPDOWNRAD
67	756091.22	3650892.04	32	58	5.1242	114	15	36.2304	249.77	E WESMOIST
37	756039.69	3650792.30	32	58	1.9325	114	15	38.3130	245.45	F CRLDOWEL
40	756053.28	3650798.99	32	58	2.1380	114	15	37.7835	245.64	F CRLMOIST
36	756039.83	36507853.10	32	58	1.6988	114	15	38.3150	245.43	F F

(Sheet 4 of 5)

**Table H3**  
**Miscellaneous Survey Locations**

Point Number	Coords East (m)	North (M)	Deg	Lat Min	Sec	Deg	Long Min	Sec	Elev. (m)	Comment
257	755987.96	3650817.67	32	58	2.7991	114	15	40.2780	249.59	TP4
34	756009.84	3650809.47	32	58	2.5147	114	15	39.4443	247.38	REF
32	756028.97	3650855.00	32	58	3.9754	114	15	38.6627	246.56	TNW
227	256028.97	3650855.00	32	58	3.9755	114	15	38.6625	246.57	TP4-TNW BS
239	256029.47	3650825.20	32	58	3.0083	114	15	38.6735	246.77	TP2-TSW BS
259	756057.08	3650839.61	32	58	3.4524	114	15	37.5986	246.81	TIPCEN
254	756085.76	3650824.97	32	58	2.9534	114	15	36.5078	246.08	TIPSE
253	756089.02	3650854.19	32	58	3.8985	114	15	36.3527	247.65	TIPNE
13	756352.60	3650872.94	32	58	4.2838	114	15	26.1922	250.40	ANW
247	756353.61	3650813.21	32	58	2.3455	114	15	26.2129	249.16	ASLSW
251	756383.25	3650842.33	32	58	3.2652	114	15	25.0435	250.21	ASLCEN
250	756411.42	3650811.72	32	58	2.2483	114	15	23.9903	250.21	ASLSE
249	756415.12	3650871.66	32	58	4.1895	114	15	23.7874	250.38	ASLNE
1.000	756454.72	3650834.23	32	58	2.9419	114	15	22.3013	250.83	TP1 BS
10	756512.05	3650823.89	32	58	2.5580	114	15	20.1059	251.48	TP2
30	756546.15	3650856.57	32	58	3.5892	114	15	18.7611	252.25	TP3

TABLE H4 SENSOR/VAN LOCATIONS										
Point Number	Coords East (m)	North (M)	Deg	Lat Min	Sec	Deg	Long Min	Sec	Elev. (m)	Comment
85	756232.52	3650854.92	32	58	3.8008	114	15	30.8306	256.03	HDL SENSOR
84	756237.37	3650859.76	32	58	3.9537	114	15	30.6389	252.34	HDL TL
83	765238.27	3650870.35	32	58	4.2964	114	15	30.5940	252.33	HDL TL
26	756328.52	3650768.81	32	58	0.9255	114	15	27.2232	249.33	NEC ASLTRAIL
28	756341.92	3650757.59	32	58	9.5513	114	15	26.7186	249.24	NEC ASLTRAIL
27	756319.38	3650750.09	32	58	0.5542	114	15	27.5863	249.16	SEC ASLTRAIL
29	756337.04	3650751.73	32	58	0.3653	114	15	26.9122	249.24	SEC ASLTRAIL
237	756182.13	3650825.45	32	58	2.8877	114	15	32.7991	250.99	WES BB
238	756182.09	3650826.05	32	58	2.9072	114	15	32.7998	251.03	WES BB
86	756215.46	3650823.60	32	58	2.7993	114	15	31.5182	251.41	WES TL
87	756211.08	3650814.00	32	58	2.4916	114	15	31.6965	251.17	WES TL
300	756216.33	3650807.77	32	58	2.2605	114	15	31.5142	267.45	WESIRCM

**Table H5**  
**WES Feature Locations**

Point Number	Coords East (m)	North (M)	Deg	Lat Min	Sec	Deg	Long Min	Sec	Elev. (m)	Comment
184	756366.35	3650819.36	32	58	2.5344	114	15	25.7167	249.40	ASL SCN1
185	756351.66	3650821.56	32	58	2.6182	114	15	26.2798	249.57	ASL SCN2
186	756378.86	3650826.17	32	58	2.7445	114	15	25.2285	249.58	ASL SCN3
187	756335.54	3650819.05	32	58	2.5502	114	15	26.9023	249.65	ASL SCN4
188	756363.26	3650828.75	32	58	3.1657	114	15	25.8163	249.88	ASL SCN5
228	756023.38	3650815.79	32	58	2.7084	114	15	38.9169	246.82	TIP SCN1
229	756062.58	3650829.36	32	58	3.1155	114	15	37.3952	246.52	TIP SCN2
230	756090.56	3650832.48	32	58	3.1931	114	15	36.3153	246.28	TIP SCN3
231	756052.47	3650850.79	32	58	3.8190	114	15	37.7627	246.78	TIP SCN4
232	756115.97	3650866.91	32	58	4.2884	114	15	35.3031	246.52	TIP SCN5



# **Appendix I**

## **Microtopography Data**

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**Table I-1  
East Grid 1**

	A	B	C	D	E	F	G	H	I	J
1	19.8	21.3	21.2	21.1	21.5	21.7	21.7	22.2	22.4	21.1
2	17.5	21.1	21.2	21.0	21.9	21.5	22.0	22.0	22.4	22.4
3	21.2	21.0	21.0	21.1	21.3	21.5	21.5	22.1	22.5	22.8
4	20.7	21.1	21.3	21.3	21.7	21.4	21.8	22.3	22.4	22.6
5	20.9	21.1	21.3	21.4	21.8	21.4	22.2	22.3	22.5	23.0
6	19.5	21.3	20.9	21.4	21.7	21.7	22.2	22.2	22.6	23.2
7	21.3	20.8	21.4	21.7	21.7	21.7	22.3	22.3	22.6	22.5
8	21.0	21.4	21.4	21.6	22.1	22.0	22.0	22.4	22.7	23.6
9	21.0	21.2	21.5	22.0	21.6	22.3	22.4	22.5	23.0	23.1
10	21.0	21.3	21.4	21.5	22.4	22.8	23.1	23.1	23.7	23.5

**Table I-2  
East Grid 2**

	A	B	C	D	E	F	G	H	I	J
1	18.2	20.6	20.8	20.8	20.9	17.8	22.2	20.8	23.9	24.3
2	18.9	19.4	20.4	20.5	19.6	21.4	21.9	23.0	24.2	23.3
3	19.6	19.2	19.9	19.9	16.9	21.0	21.9	23.1	23.5	23.6
4	17.9	19.2	19.7	19.5	21.6	21.2	21.7	22.4	23.2	24.0
5	18.8	18.5	19.4	15.3	20.7	21.3	21.8	21.8	23.2	21.8
6	18.9	18.5	19.4	18.2	19.2	21.4	22.0	22.3	23.0	22.3
7	19.1	18.1	19.1	19.2	19.3	18.0	21.3	21.4	22.0	22.3
8	19.6	18.4	14.3	17.0	19.3	18.9	21.4	20.4	16.1	22.2
9	15.3	18.3	18.5	18.0	18.8	18.5	17.4	16.8	20.0	21.8
10	16.8	17.3	17.0	17.7	18.6	18.1	19.6	20.8	21.0	22.4

**Table I-3  
East Grid 3**

	A	B	C	D	E	F	G	H	I	J
1	24.9	24.1	24.5	23.9	23.5	23.5	23.3	22.5	22.9	22.4
2	24.4	24.0	24.1	23.0	23.8	23.5	23.6	23.1	22.5	23.0
3	23.8	24.1	23.9	24.0	22.4	23.3	22.1	22.0	22.6	22.2
4	24.2	24.0	23.9	24.0	23.5	23.3	23.3	22.8	22.8	23.0
5	24.1	23.6	24.0	24.0	23.5	23.1	22.6	22.9	22.1	22.5
6	24.0	23.9	23.8	23.1	23.2	23.2	23.3	23.0	22.3	22.3
7	24.0	23.6	23.7	23.2	21.9	23.1	22.4	21.8	22.3	21.4
8	23.9	23.7	23.6	23.4	23.3	22.7	23.1	21.5	22.2	21.7
9	23.7	23.9	23.3	23.4	23.9	23.0	22.7	22.5	23.0	22.8
10	23.9	24.1	23.8	23.2	23.1	23.2	22.9	22.4	22.6	22.7

**Table I-4  
East Grid 4**

	A	B	C	D	E	F	G	H	I	J
1	23.0	23.0	23.5	22.8	23.3	23.0	24.0	23.0	23.2	23.5
2	23.0	23.2	23.0	23.0	23.4	23.0	23.0	22.6	22.5	22.8
3	22.8	22.5	23.2	22.0	23.8	22.7	23.0	22.4	22.5	23.0
4	21.5	22.4	22.8	22.0	23.5	22.5	22.5	23.4	23.0	23.2
5	22.0	21.5	23.2	22.0	23.4	22.5	22.0	22.5	22.8	22.8
6	21.0	21.6	21.8	21.8	22.2	23.0	22.6	22.2	23.0	22.5
7	21.9	20.7	22.0	23.2	22.0	22.8	22.5	22.2	22.2	22.5
8	20.3	21.7	19.9	23.4	22.0	22.5	22.6	21.0	22.0	22.0
9	20.8	21.0	22.0	21.2	22.0	22.0	22.0	21.9	20.5	21.9
10	21.0	21.1	21.5	21.0	22.5	22.0	22.5	21.9	19.0	21.0

**Table I-5  
West Grid 1**

	A	B	C	D	E	F	G	H	I	J
1	17.0	17.2	17.0	16.0	16.5	16.5	16.0	15.5	16.0	15.2
2	17.0	16.5	16.2	16.5	16.6	16.0	16.2	15.0	15.5	15.0
3	16.5	16.5	16.0	16.0	16.2	16.0	16.0	15.3	15.5	15.0
4	15.8	15.8	15.5	16.0	15.5	15.5	15.5	15.3	15.0	15.0
5	15.5	15.0	15.3	15.5	15.5	15.0	14.8	14.8	15.0	15.0
6	15.5	14.8	14.8	15.1	15.0	15.0	15.0	14.8	14.5	14.5
7	15.2	14.3	16.2	15.1	15.5	15.0	15.0	14.8	15.0	14.8
8	15.0	14.3	14.5	15.0	14.5	14.8	14.8	14.3	14.0	14.5
9	15.5	14.5	14.5	14.0	14.4	15.0	15.0	14.5	14.0	14.3
10	15.0	14.5	14.0	14.0	13.8	14.8	14.3	15.0	14.0	13.0

**Table I-6  
West Grid 2**

	A	B	C	D	E	F	G	H	I	J
1	19.5	18.8	19.0	17.5	19.0	17.0	17.2	17.5	17.2	17.0
2	18.5	18.0	17.4	17.0	16.5	16.8	16.0	16.0	16.0	16.0
3	18.0	16.8	16.4	15.2	16.0	15.8	14.8	15.5	15.0	13.0
4	17.0	15.4	16.0	15.0	14.9	14.5	13.8	14.5	14.5	15.0
5	17.4	12.3	15.0	14.5	14.5	14.0	12.8	14.0	14.6	13.8
6	15.3	15.0	13.9	13.8	13.8	13.0	13.0	13.2	13.3	13.0
7	14.5	14.0	14.0	13.2	13.2	12.8	13.0	12.3	11.5	11.8
8	13.6	13.3	13.3	12.5	12.8	12.0	11.8	12.0	11.8	11.2
9	13.0	13.0	12.0	12.0	12.0	11.5	11.2	11.8	11.5	10.0
10	10.5	12.4	12.0	11.5	12.0	11.0	11.4	10.0	10.8	10.0

**Table I-7  
West Grid 3**

	A	B	C	D	E	F	G	H	I	J
1	15.0	15.0	15.5	15.5	15.5	16.0	15.6	15.0	14.8	15.0
2	15.0	14.5	14.5	14.5	15.0	15.0	15.0	15.0	14.0	13.5
3	14.4	14.2	14.5	14.0	14.5	14.5	14.8	14.0	13.8	14.0
4	14.2	13.5	14.2	14.0	14.0	14.0	14.0	13.5	13.5	13.5
5	13.8	13.5	14.0	13.5	13.8	13.8	13.8	12.5	13.3	13.3
6	13.0	12.8	13.0	12.5	12.5	13.0	12.8	13.0	13.0	12.5
7	12.6	12.5	12.5	11.8	13.0	12.5	12.8	13.0	12.8	12.0
8	11.5	12.5	12.2	11.5	12.0	12.0	12.0	11.8	12.0	12.9
9	12.0	11.0	11.8	11.2	11.5	11.6	11.6	12.0	11.5	11.0
10	11.5	11.2	11.0	11.5	10.8	11.8	11.8	10.5	11.0	10.8

**Table I-8  
West Grid 4**

	A	B	C	D	E	F	G	H	I	J
1	17.0	16.5	16.0	17.0	16.8	17.0	17.8	18.5	17.5	17.0
2	16.7	16.0	16.5	17.0	17.0	17.0	17.3	16.6	17.2	16.5
3	17.0	16.8	16.5	16.8	16.3	17.7	17.0	17.5	16.3	15.5
4	17.2	17.5	16.4	17.0	13.0	17.0	16.0	16.5	16.0	16.0
5	16.8	17.0	15.8	17.0	16.0	16.3	15.3	13.0	16.5	16.5
6	16.0	16.2	16.5	16.0	17.0	15.8	15.0	15.0	16.8	14.5
7	17.0	16.6	17.0	16.5	16.0	15.8	14.5	17.2	17.0	14.2
8	16.5	16.0	16.2	17.2	16.3	16.0	16.0	15.4	13.0	13.5
9	17.0	17.0	16.5	16.0	16.0	16.0	14.5	14.0	13.0	12.5
10	15.5	15.8	14.2	14.0	14.8	14.8	14.5	13.0	10.0	13.5

# **Appendix J**

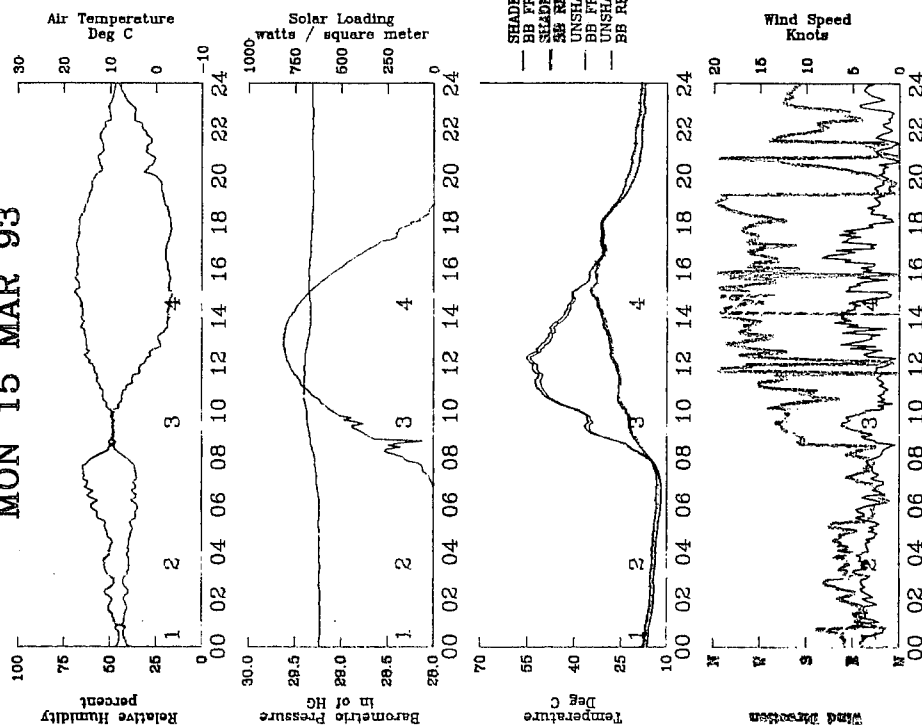
## **Daily Meteorological Data**

### **Summaries**

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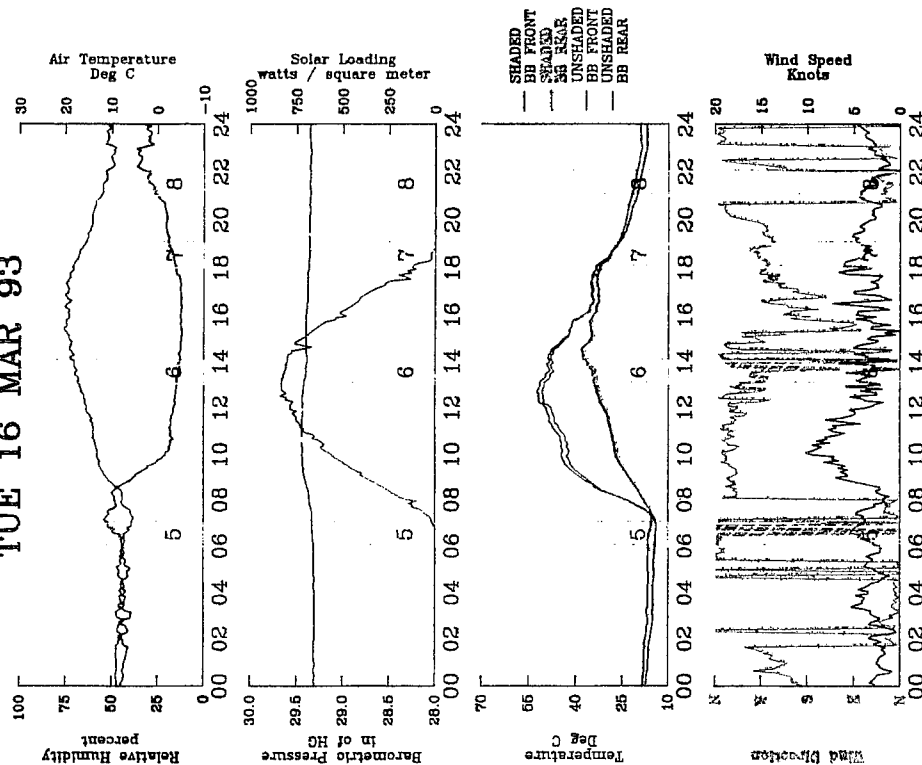
# Environmental Summary

MON 15 MAR 93



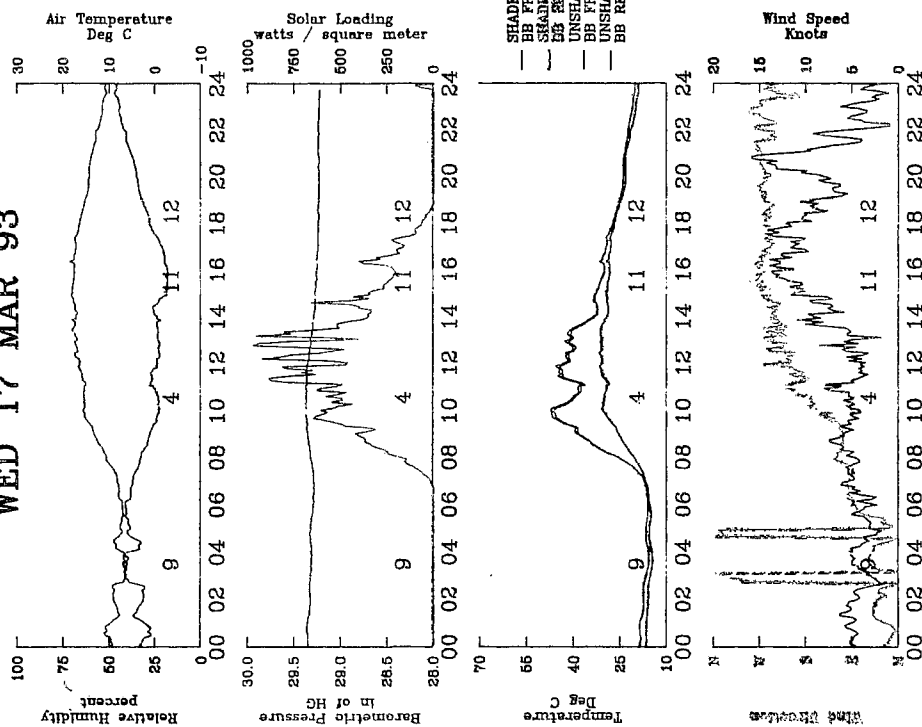
# Environmental Summary

TUE 16 MAR 93



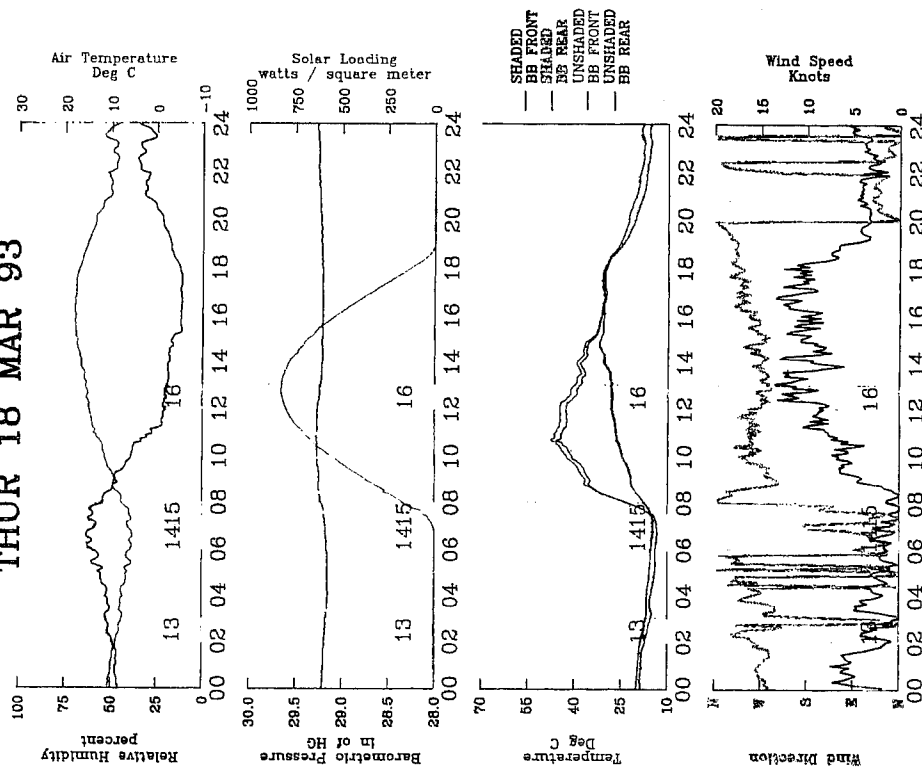
# Environmental Summary

WED 17 MAR 93



# Environmental Summary

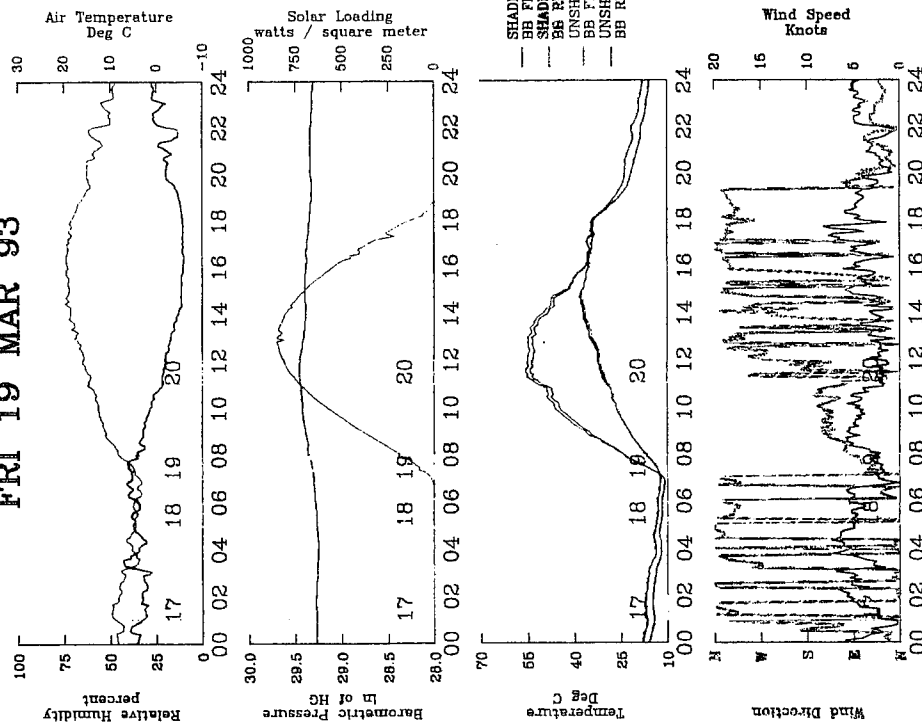
THUR 18 MAR 93





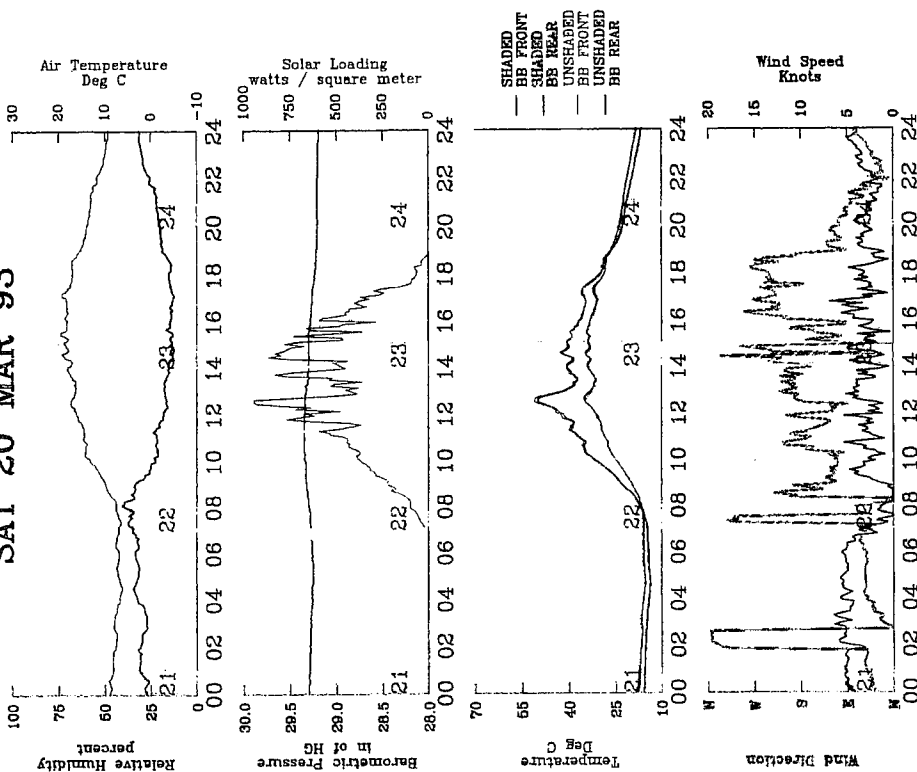
# Environmental Summary

FRI 19 MAR 93



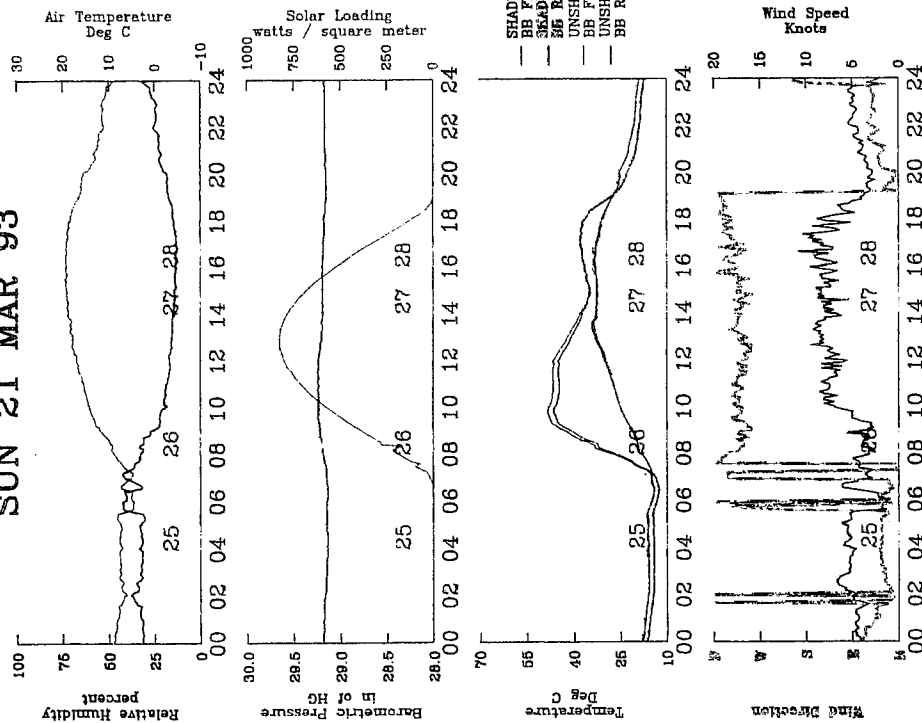
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SAT 20 MAR 93



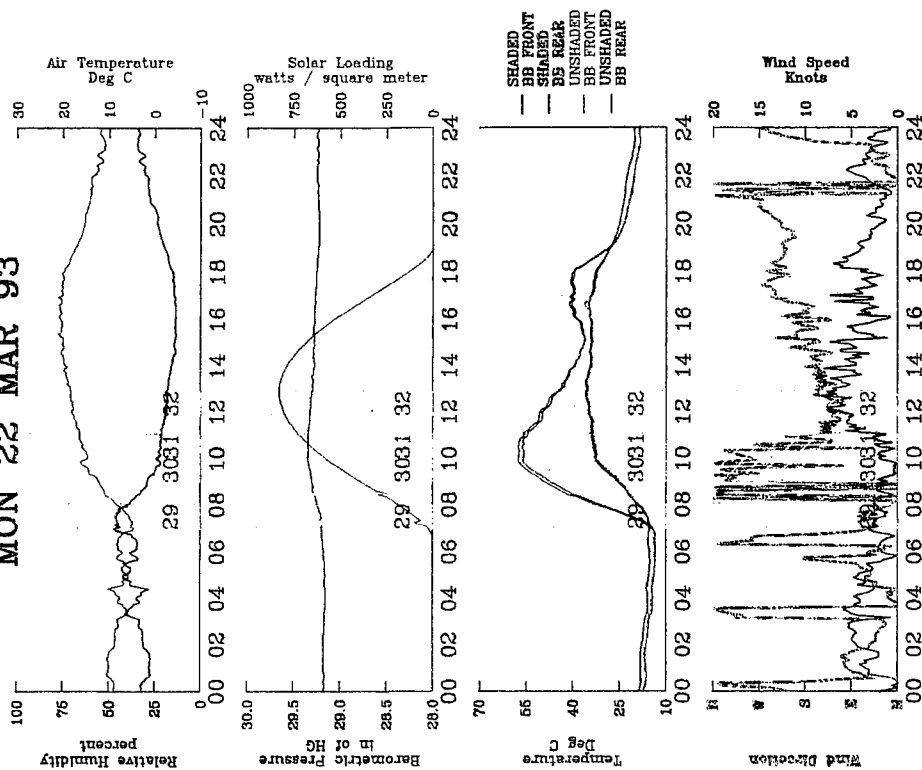
# Environmental Summary

SUN 21 MAR 93



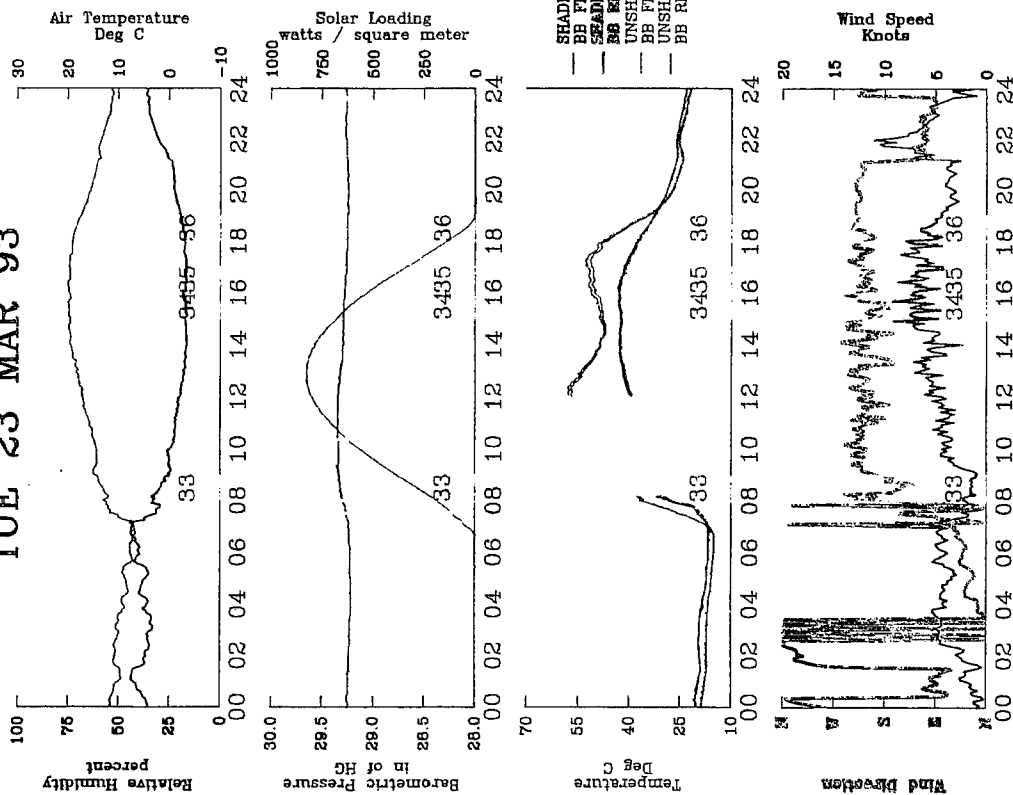
# Environmental Summary

MON 22 MAR 93



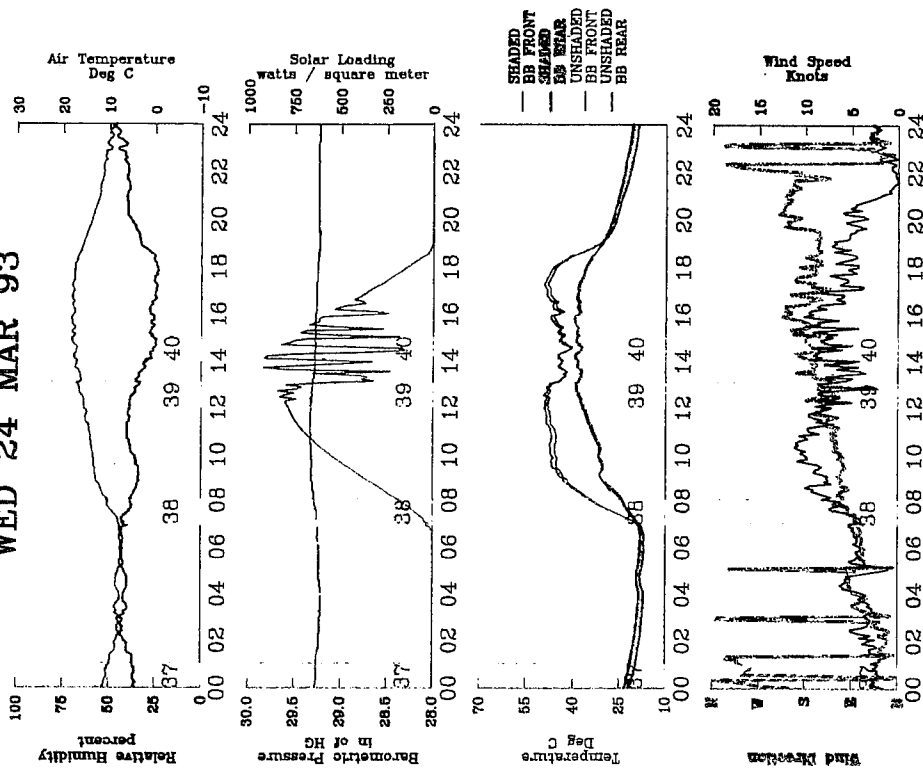
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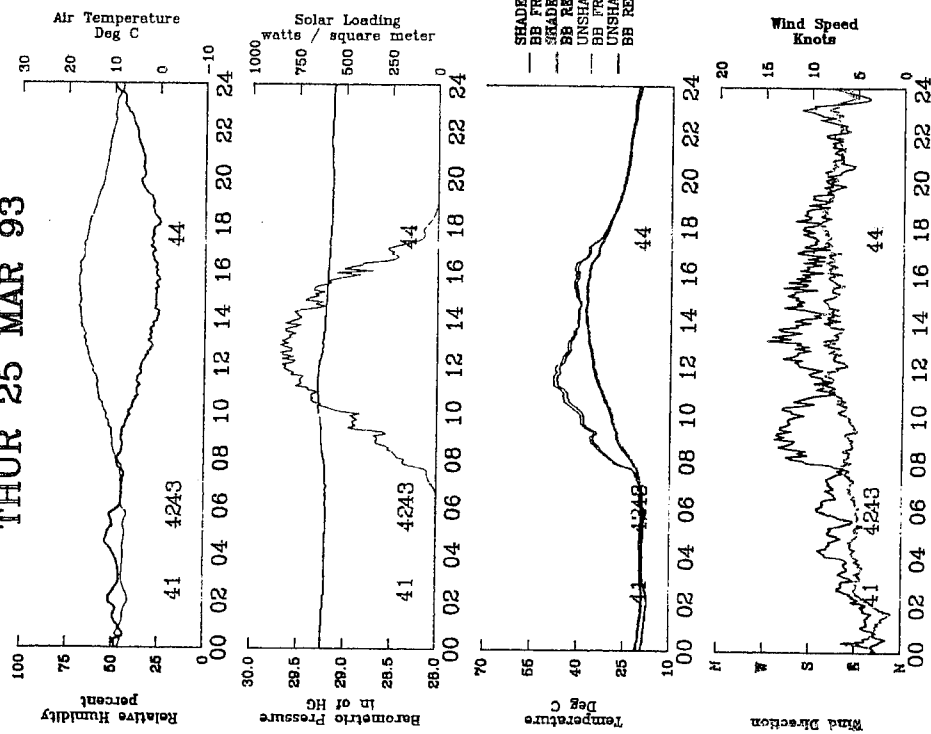
# Environmental Summary

WED 24 MAR 93



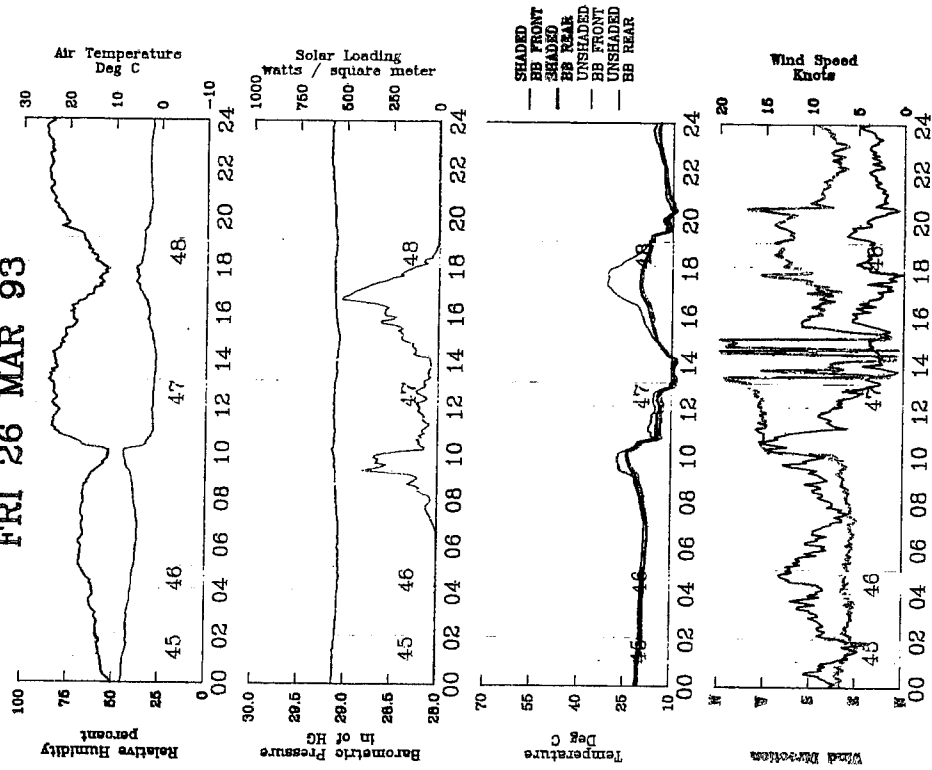
# Environmental Summary

THUR 25 MAR 93



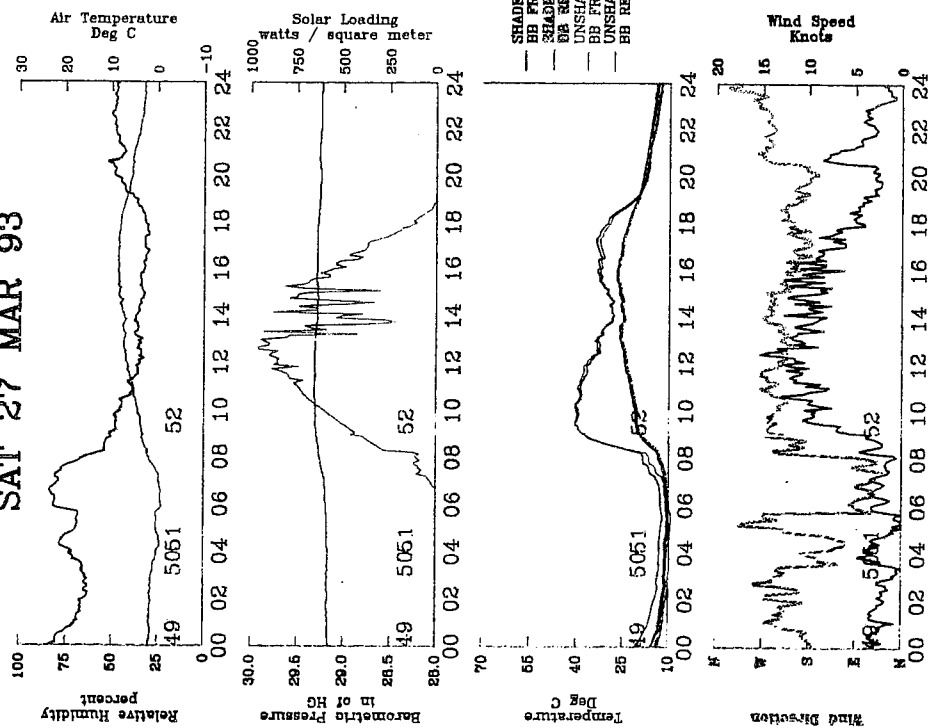
# Environmental Summary

FRI 26 MAR 93



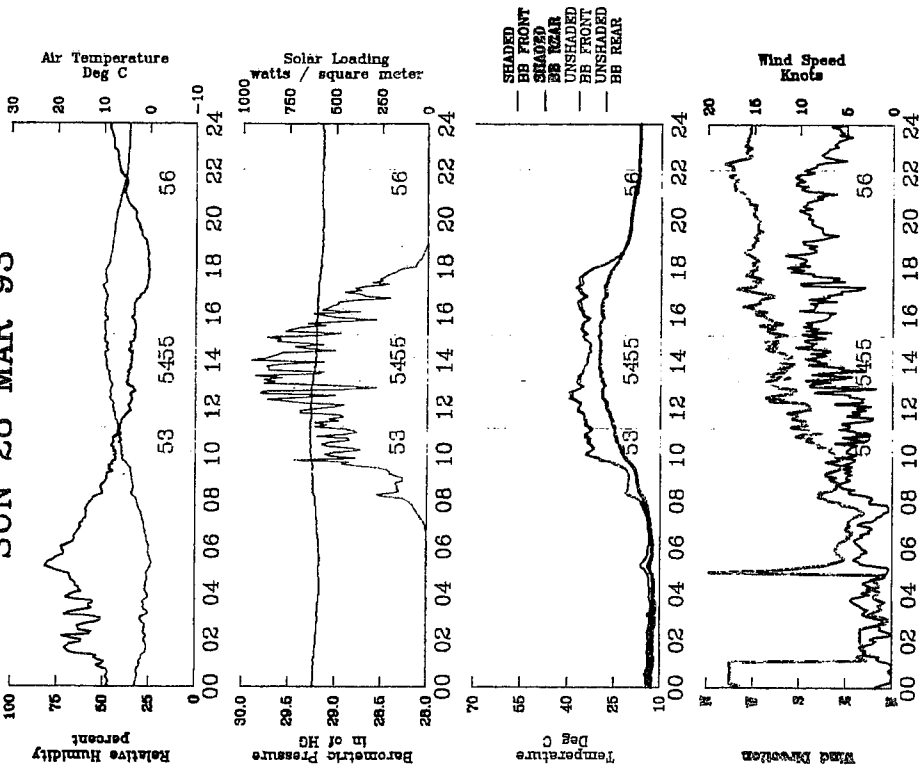
# Environmental Summary

SAT 27 MAR 93



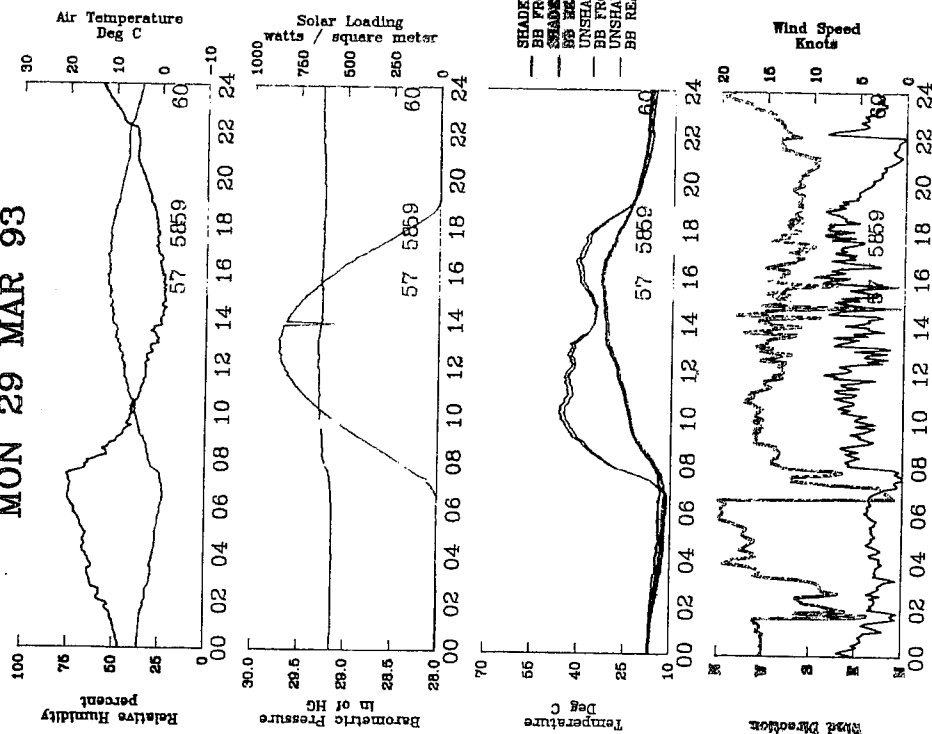
# Environmental Summary

SUN 28 MAR 93



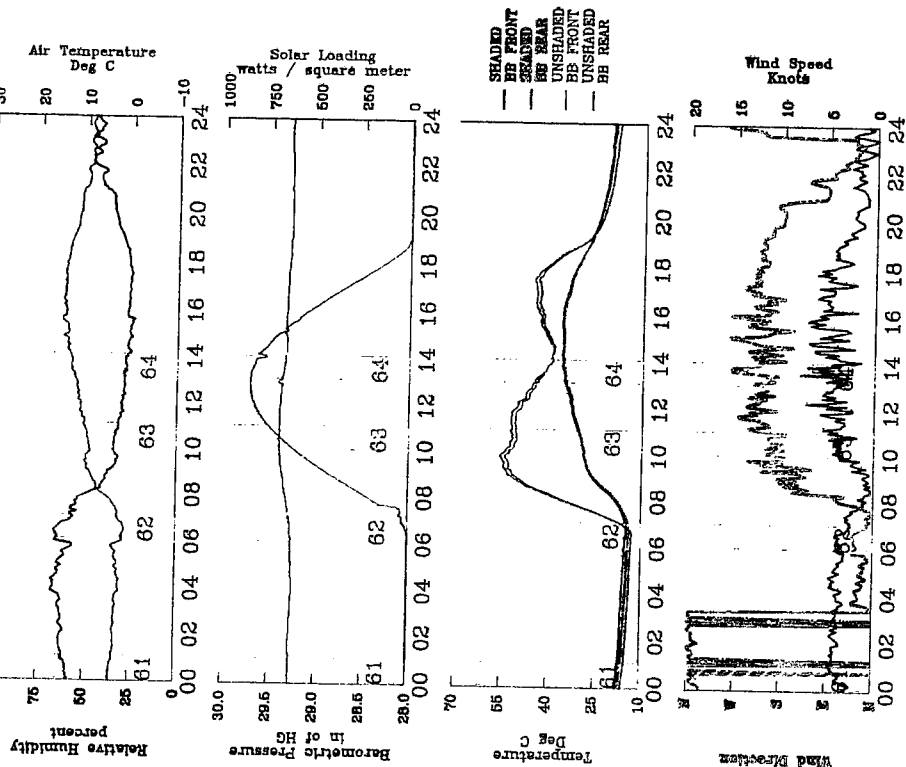
# Environmental Summary

MON 29 MAR 93



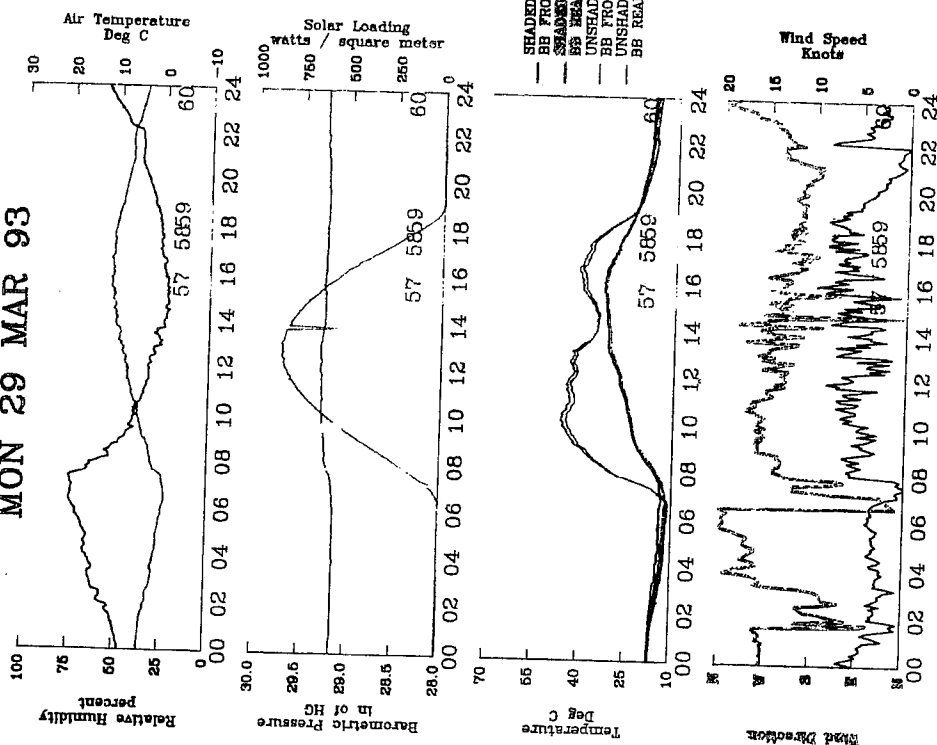
# Environmental Summary

TUE 30 MAR 93



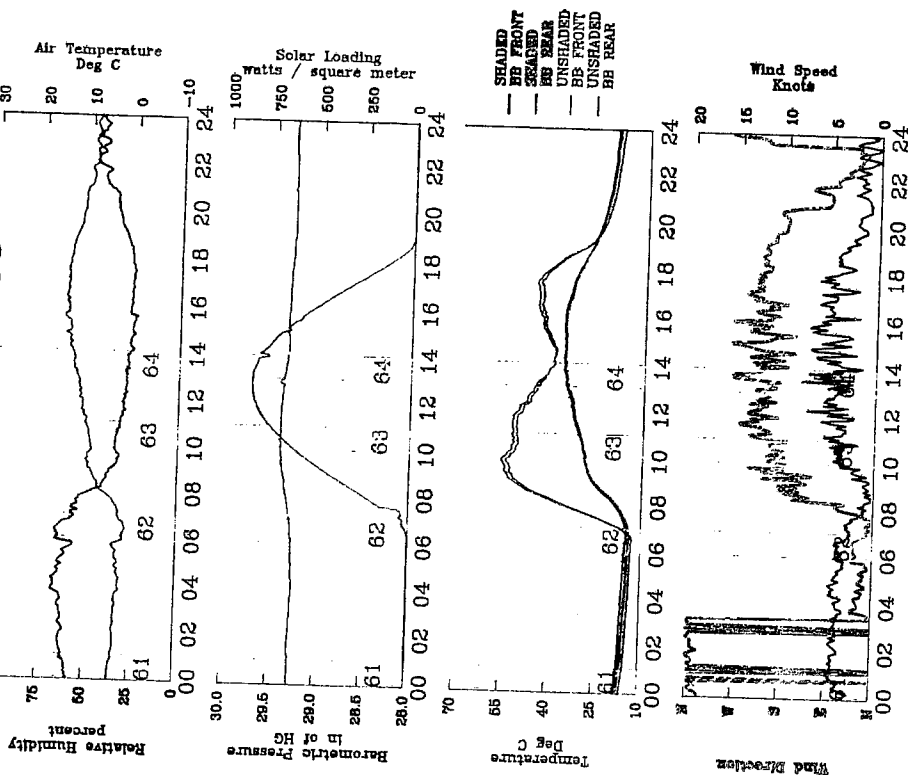
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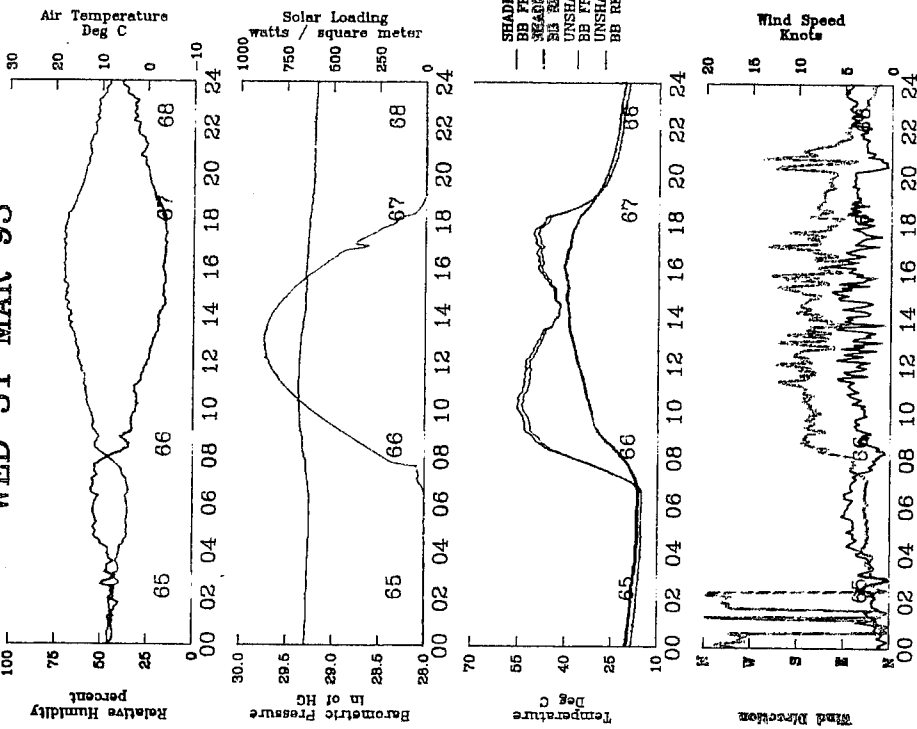
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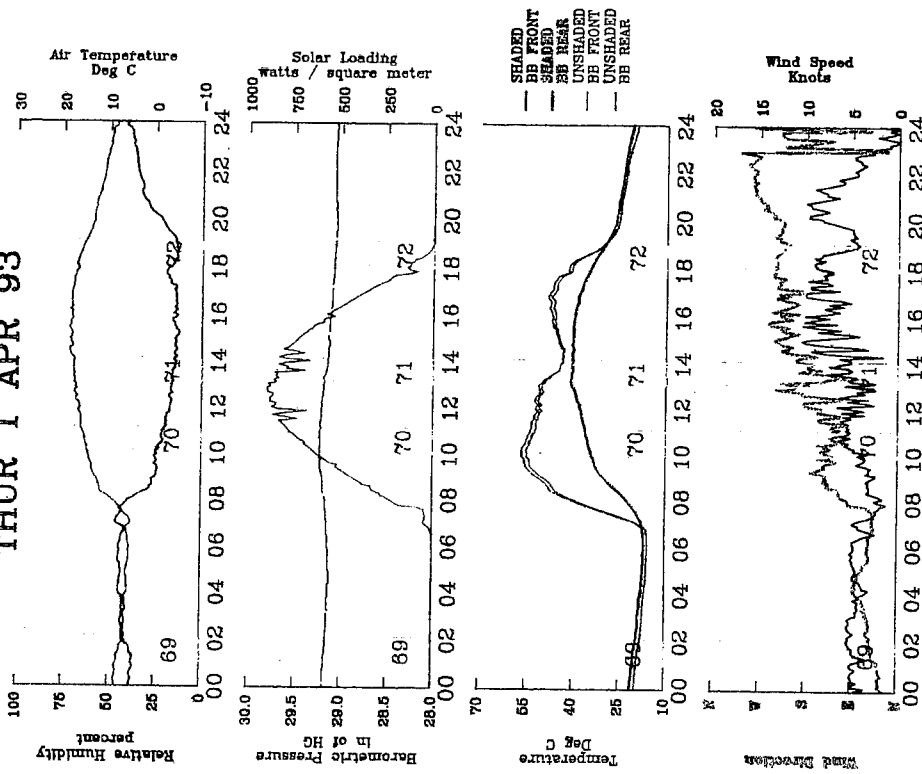
# Environmental Summary

WED 31 MAR 93



# Environmental Summary

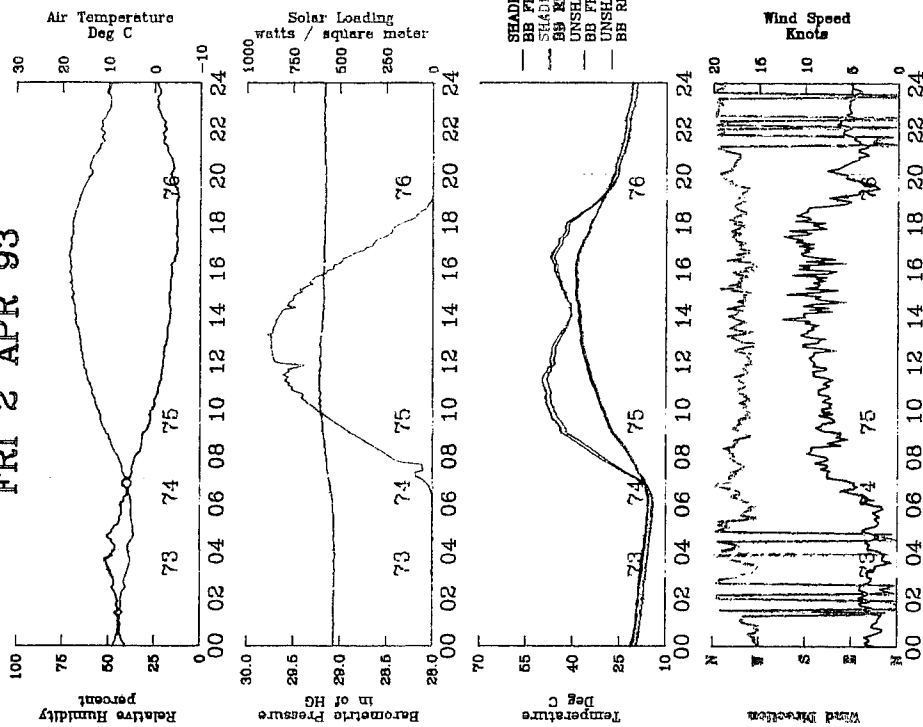
THUR 1 APR 93





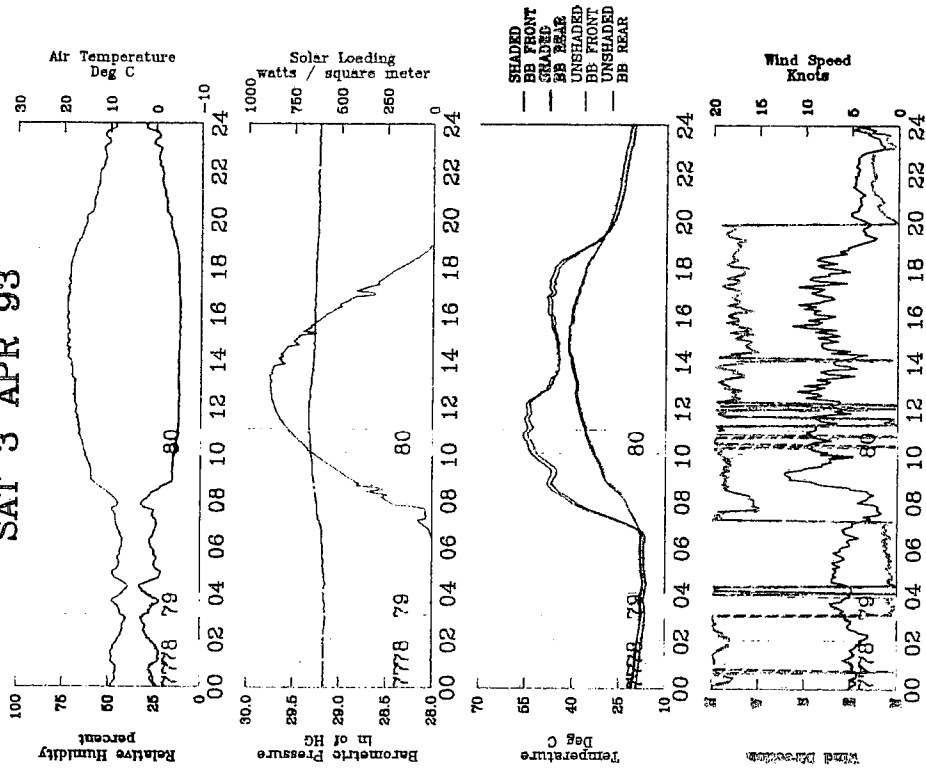
# Environmental Summary

FRI 2 APR 93



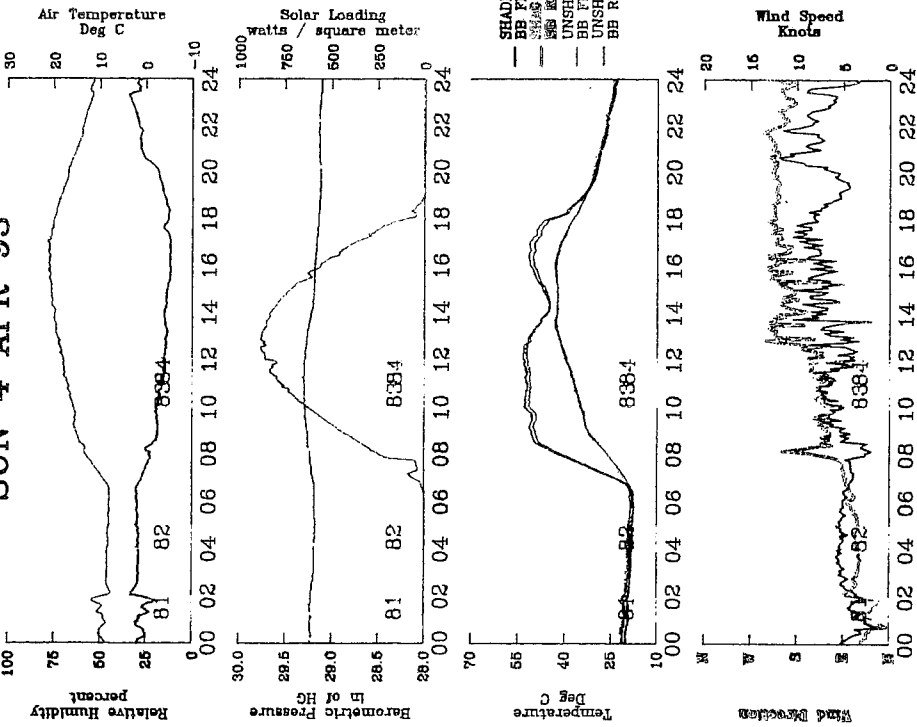
# Environmental Summary

SAT 3 APR 93



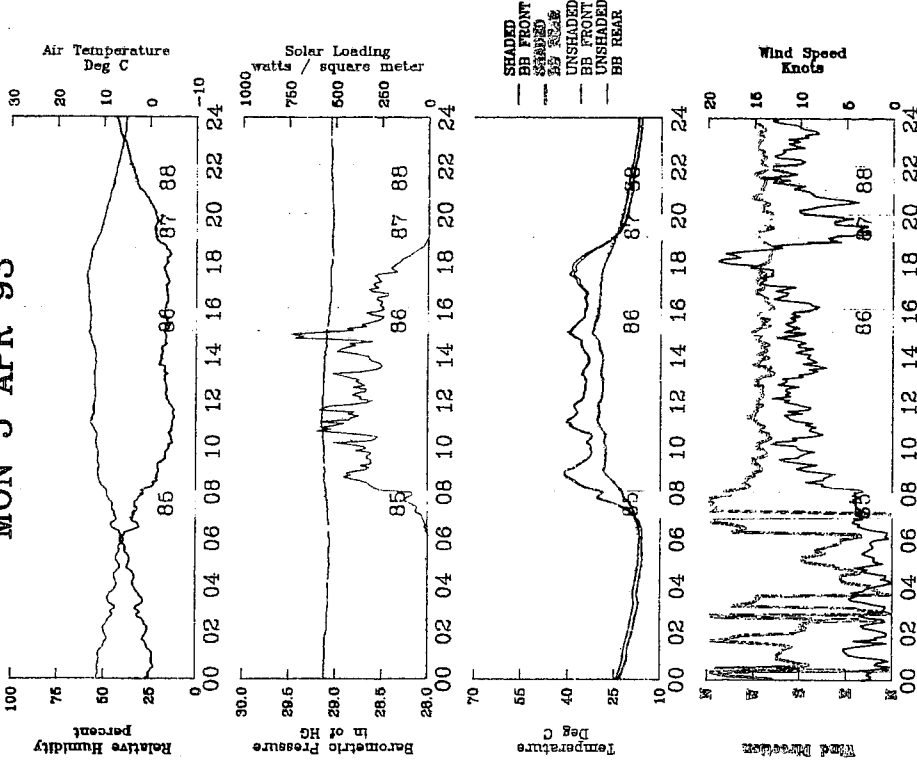
# Environmental Summary

SUN 4 APR 93



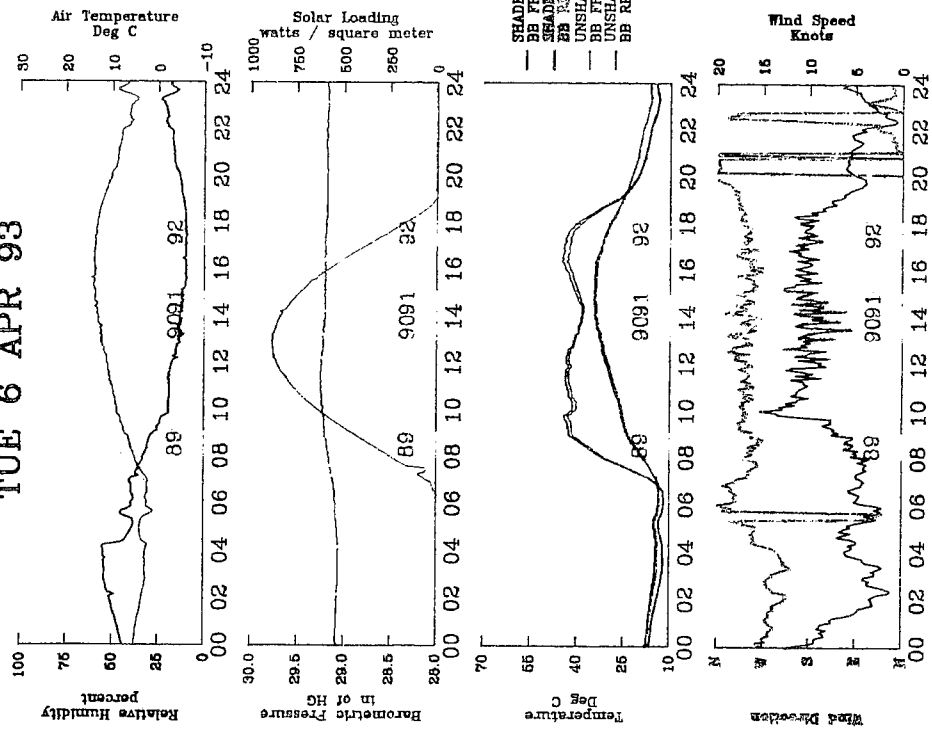
# Environmental Summary

MON 5 APR 93



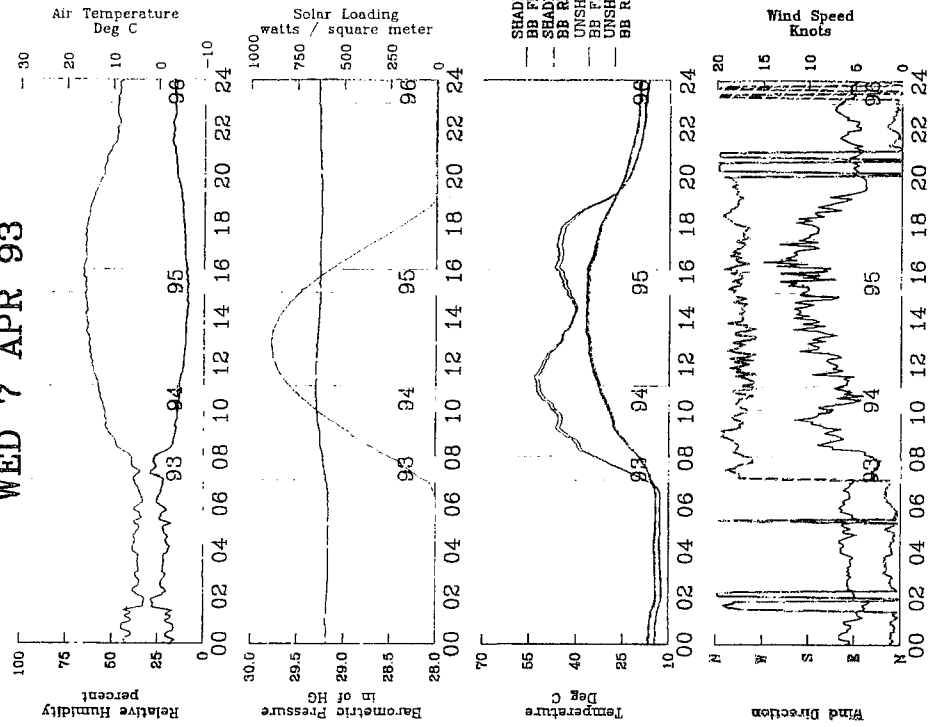
# Environmental Summary

TUE 6 APR 93



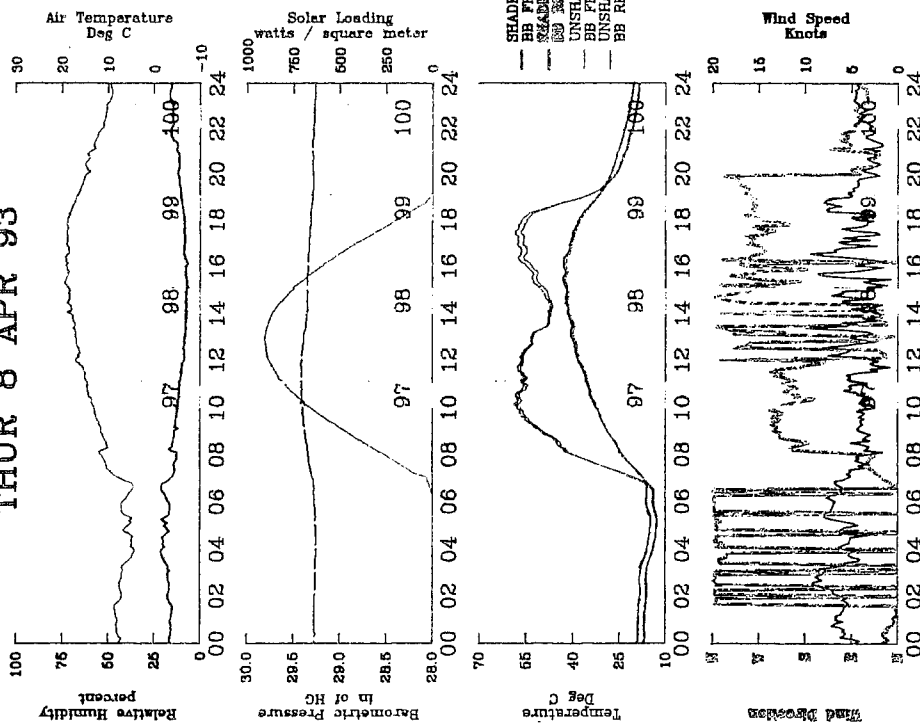
# Environmental Summary

WED 7 APR 93



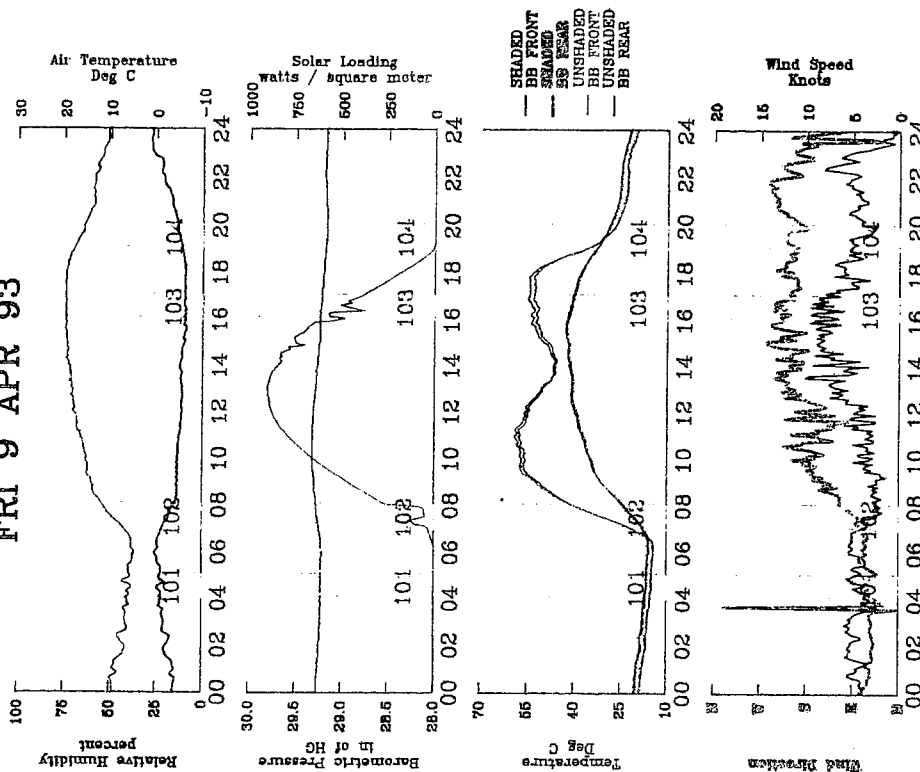
# Environmental Summary

THUR 8 APR 93



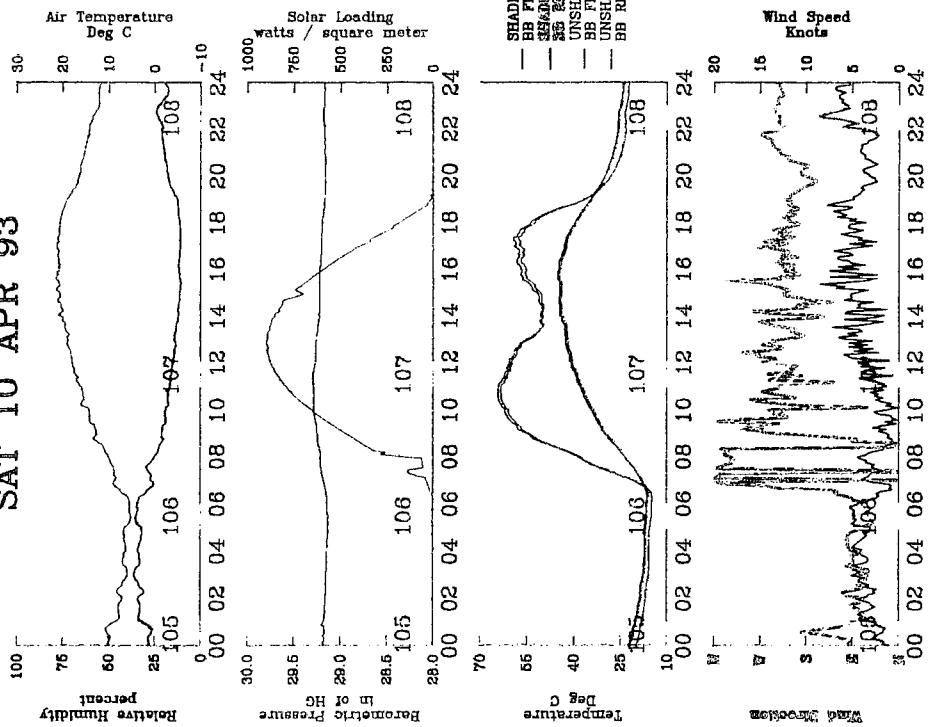
# Environmental Summary

FRI 9 APR 93



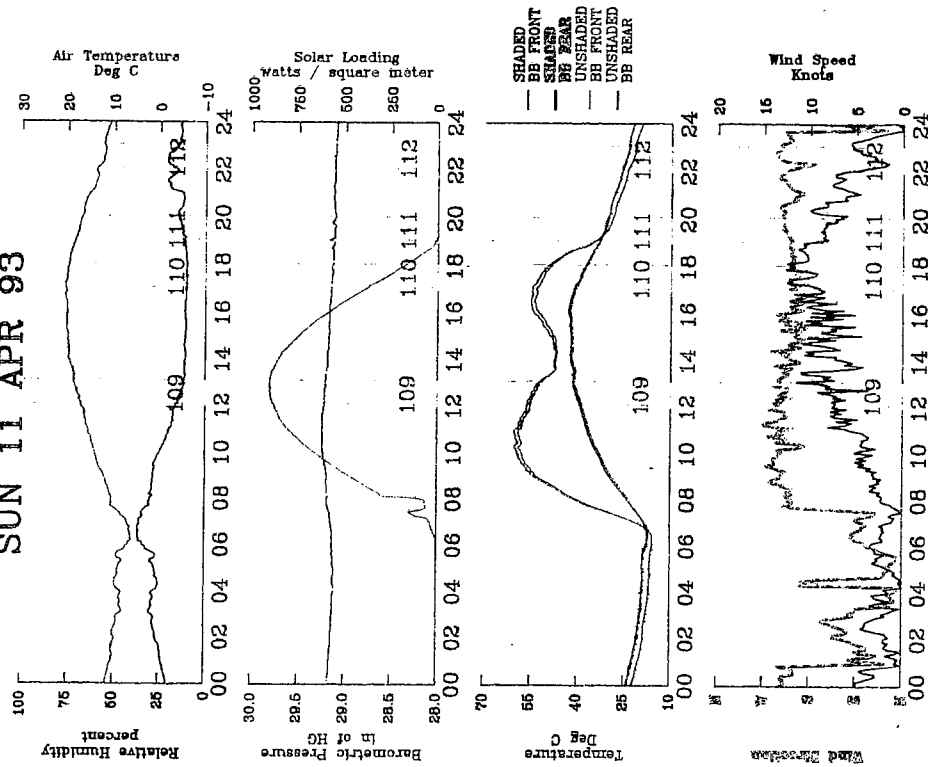
# Environmental Summary

SAT 10 APR 93



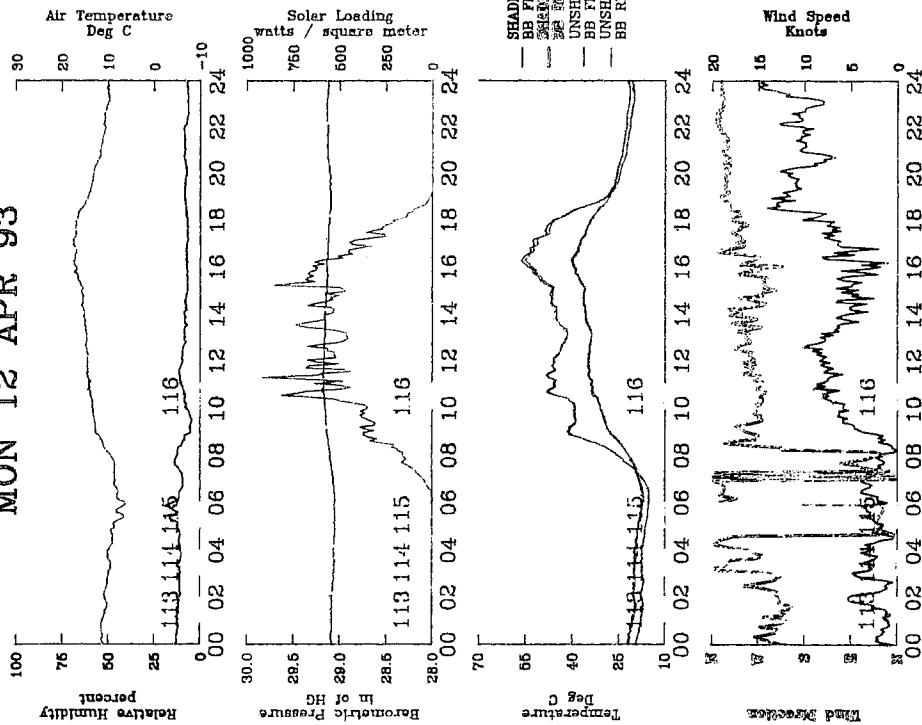
# Environmental Summary

SUN 11 APR 93



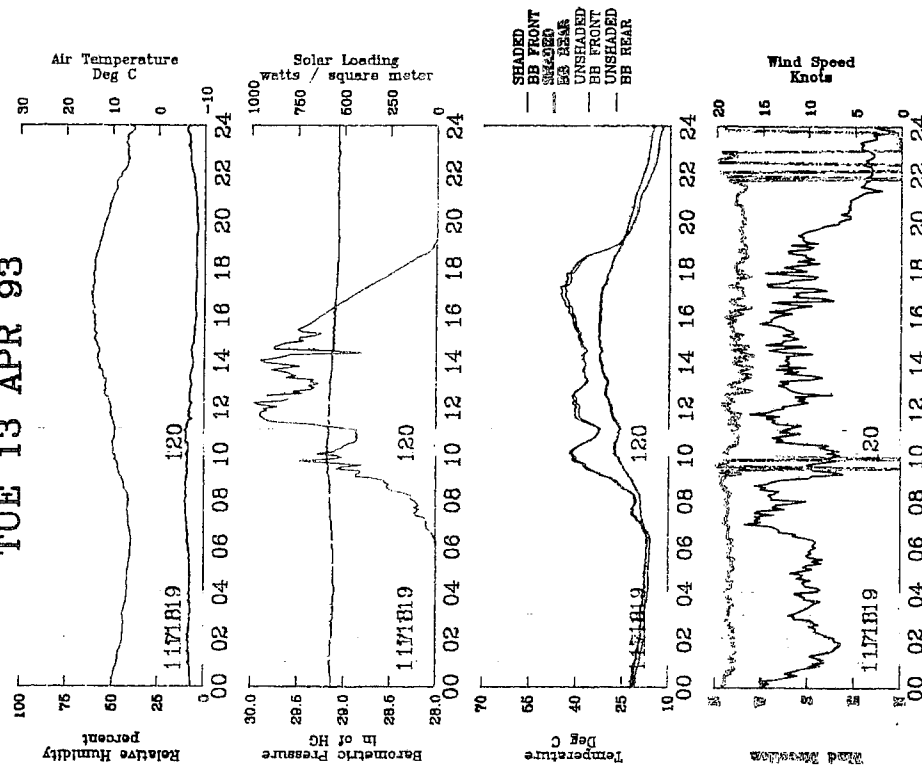
# Environmental Summary

MON 12 APR 93



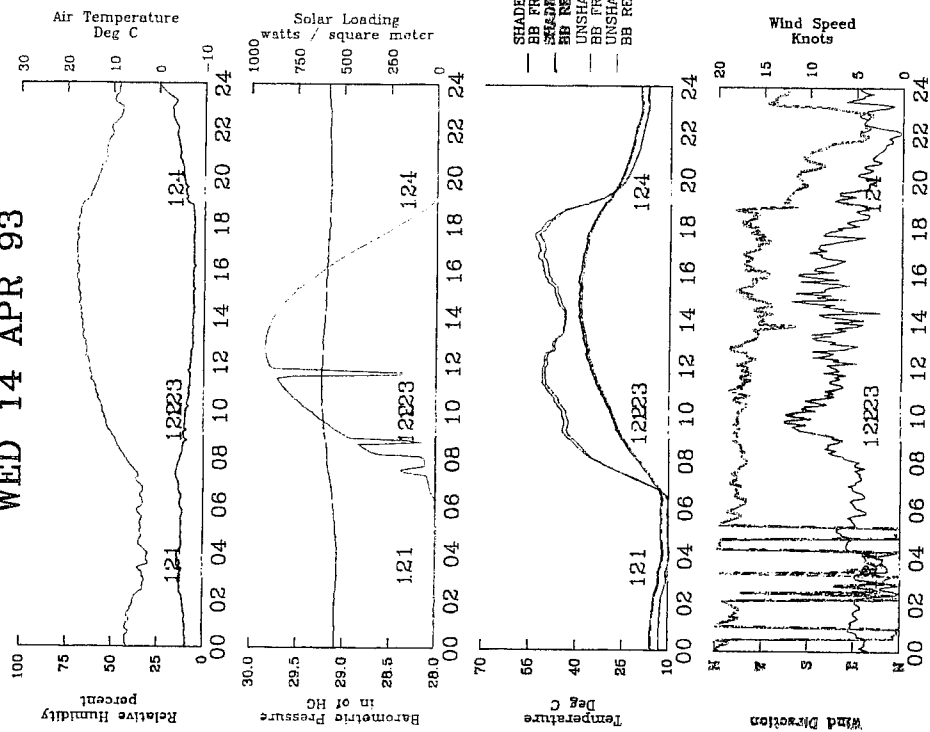
# Environmental Summary

TUE 13 APR 93



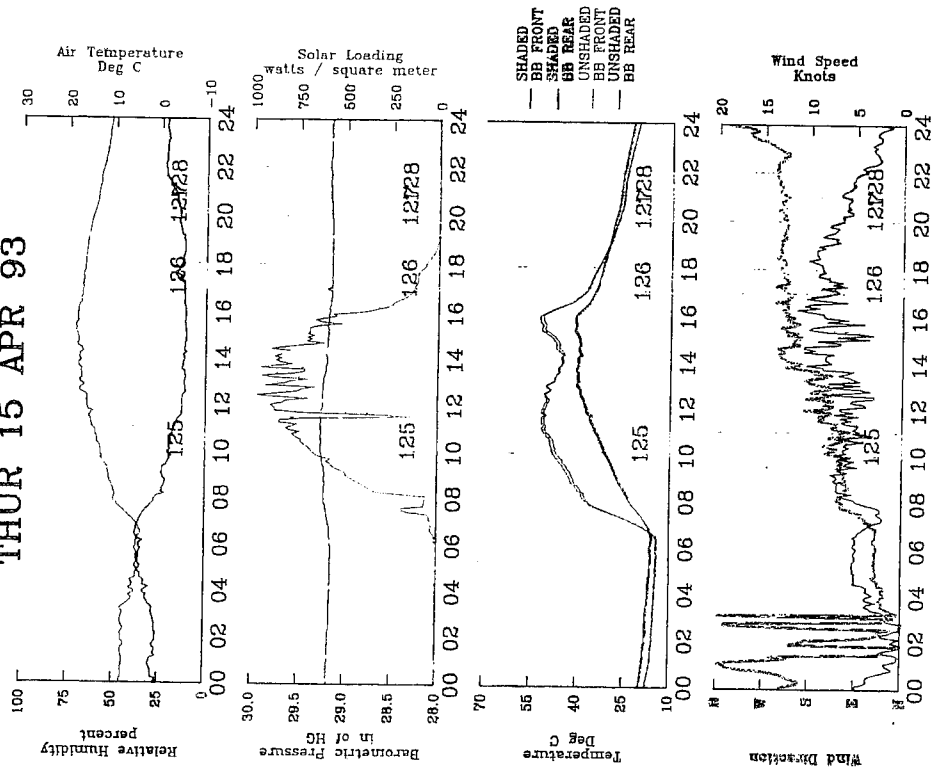
# Environmental Summary

WED 14 APR 93



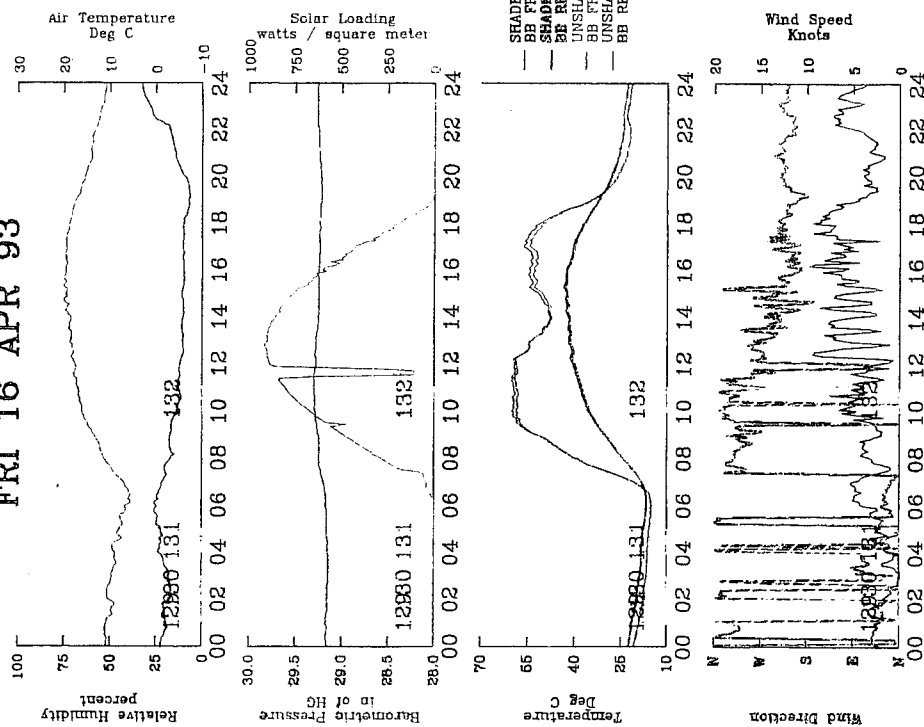
# Environmental Summary

THUR 15 APR 93



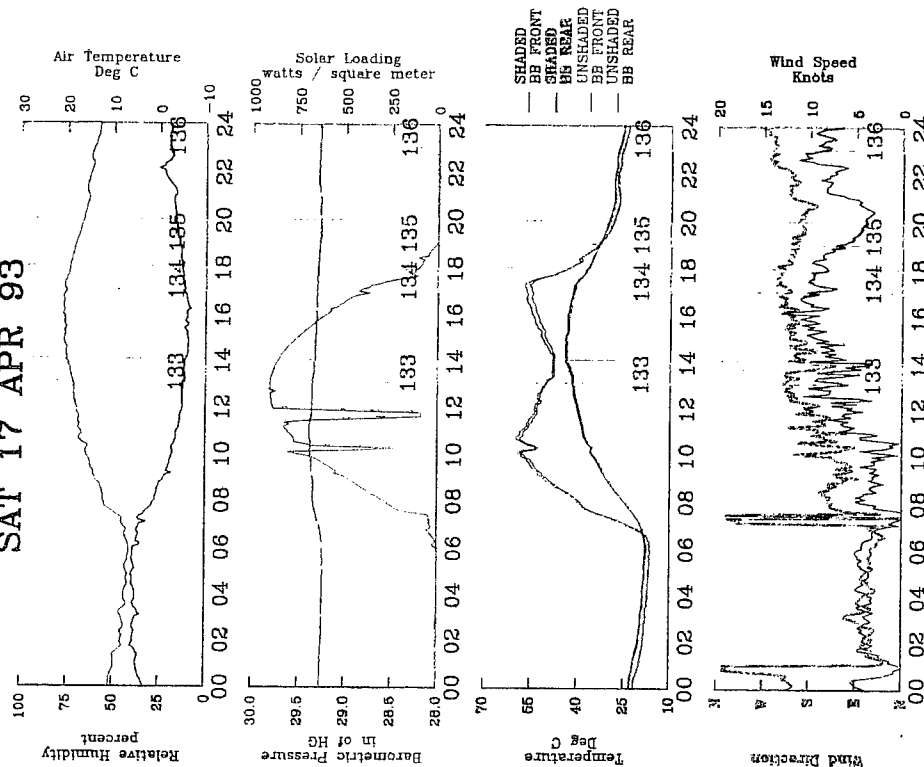
# Environmental Summary

FRI 16 APR 93



# Environmental Summary

SAT 17 APR 93

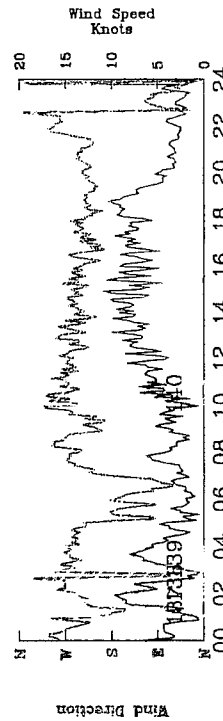
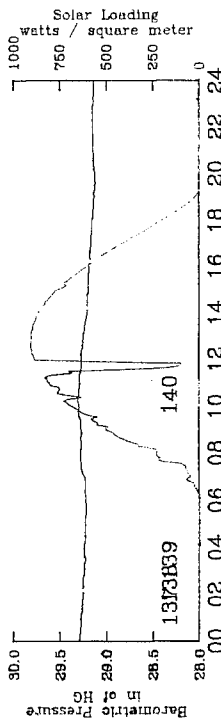
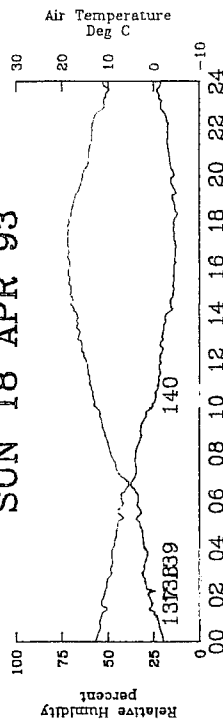




# Environmental Summary

SUN 18 APR 93

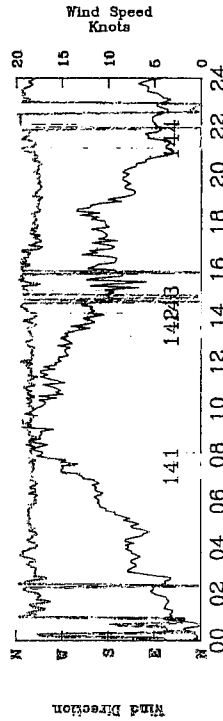
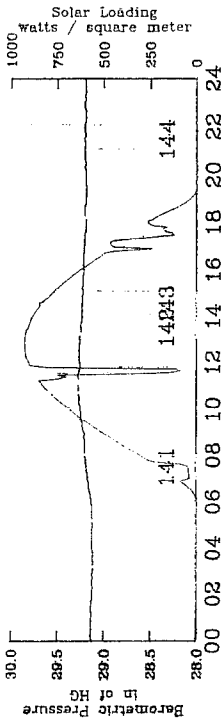
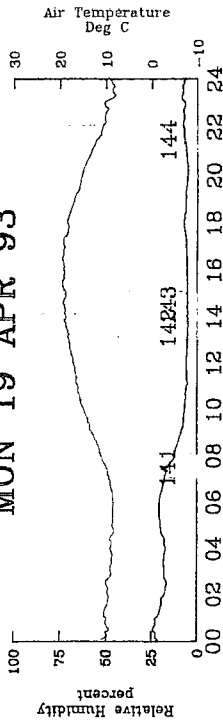
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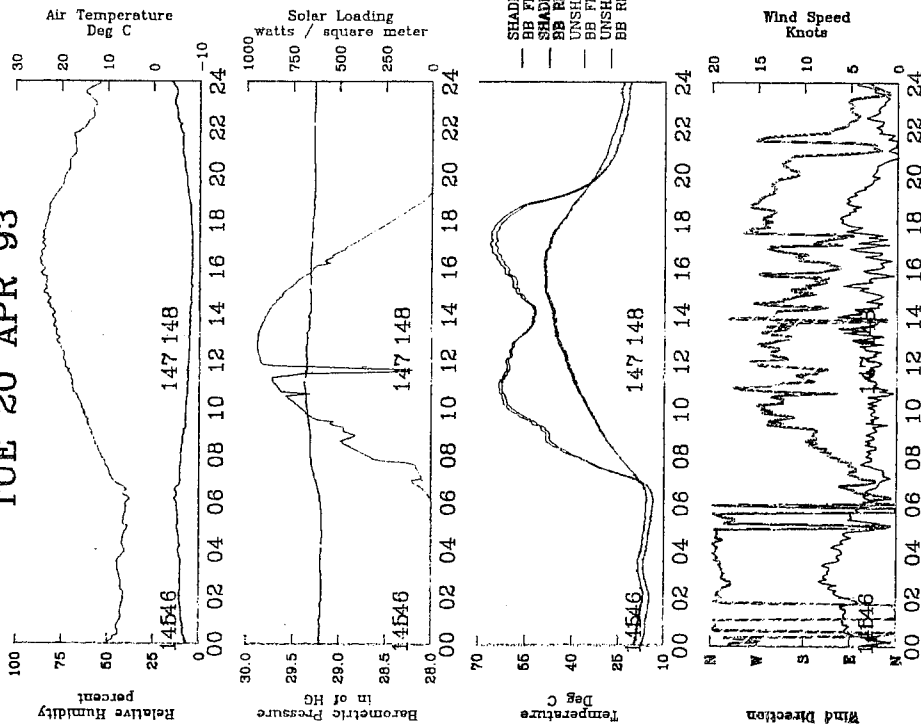
MON 19 APR 93

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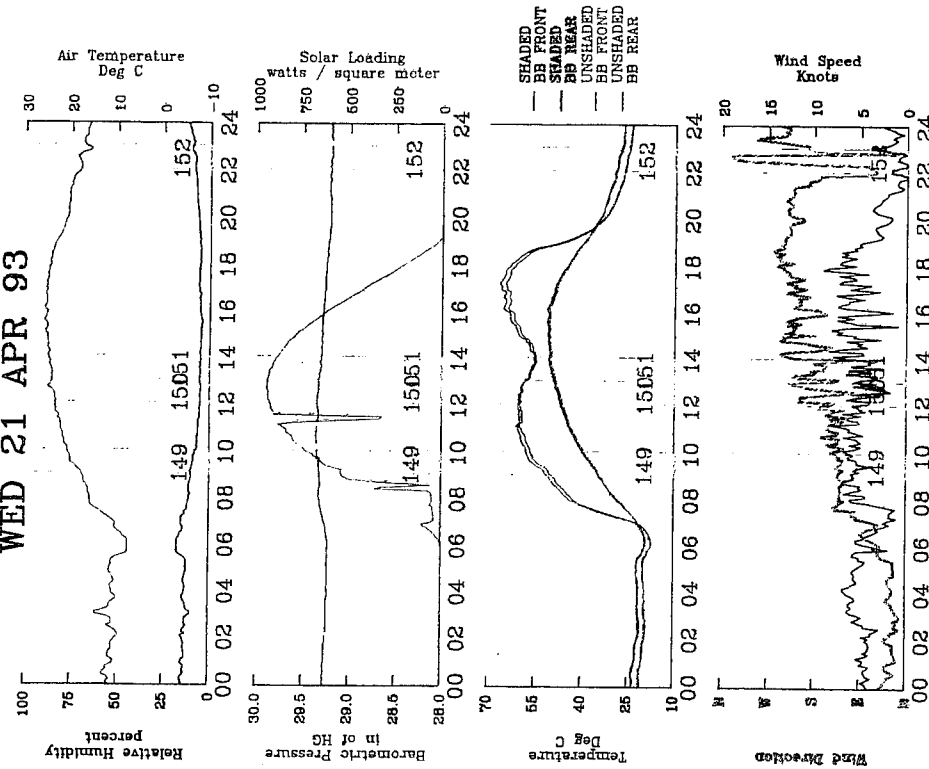
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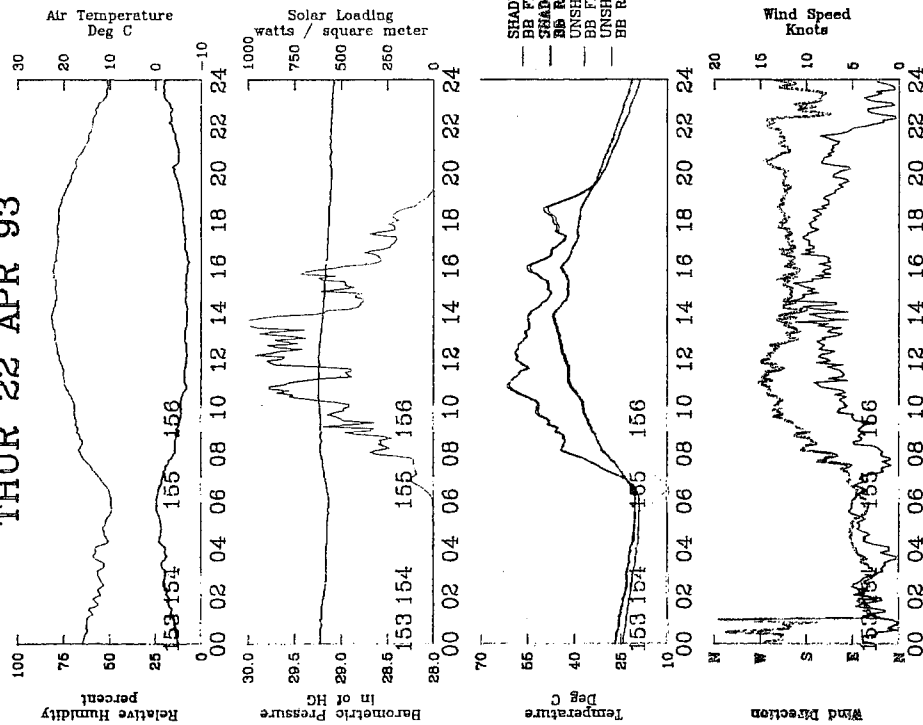
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WED 21 APR 93



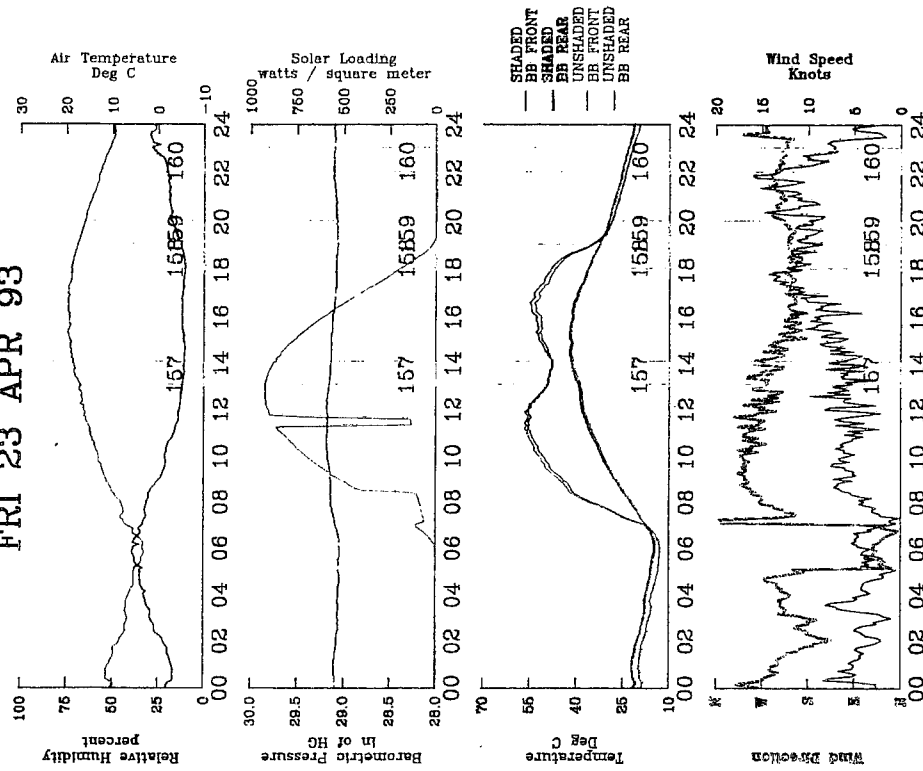
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THUR 22 APR 93



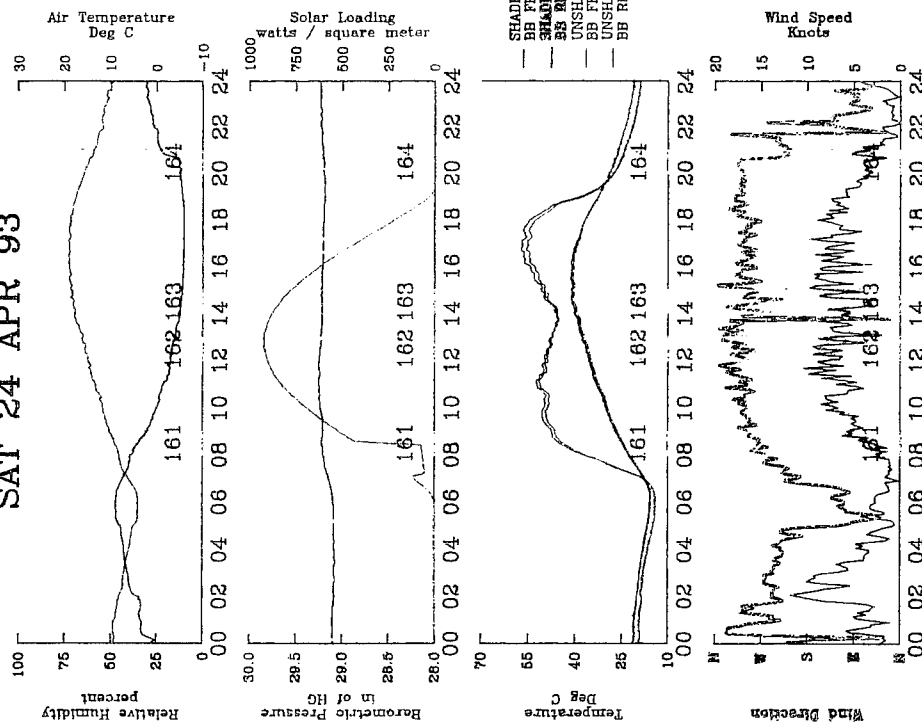
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FRI 23 APR 93



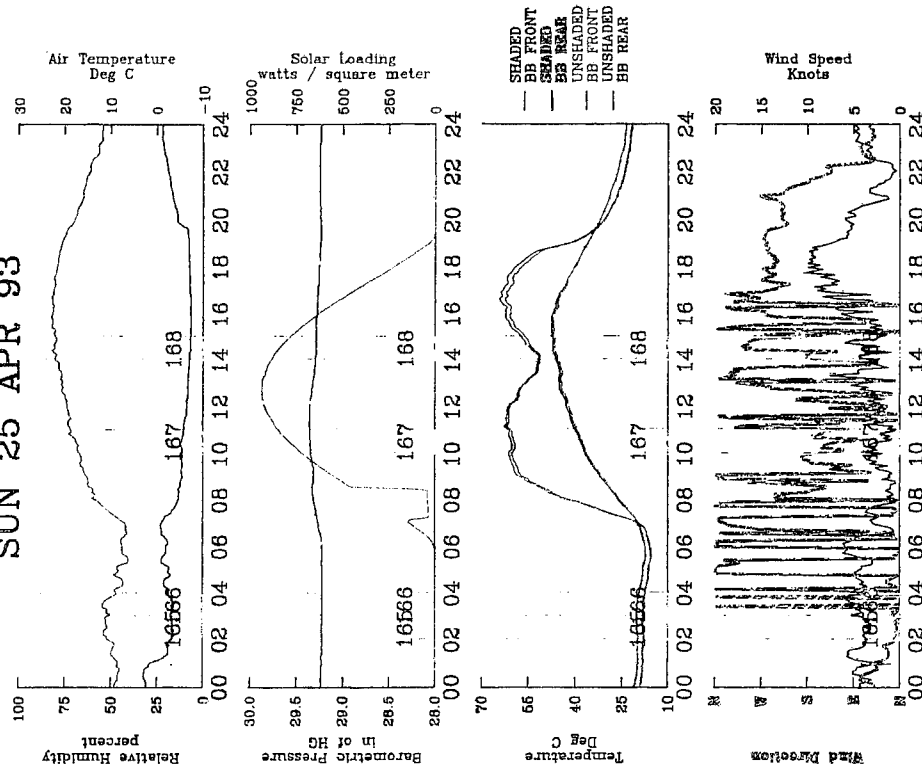
# Environmental Summary

SAT 24 APR 93



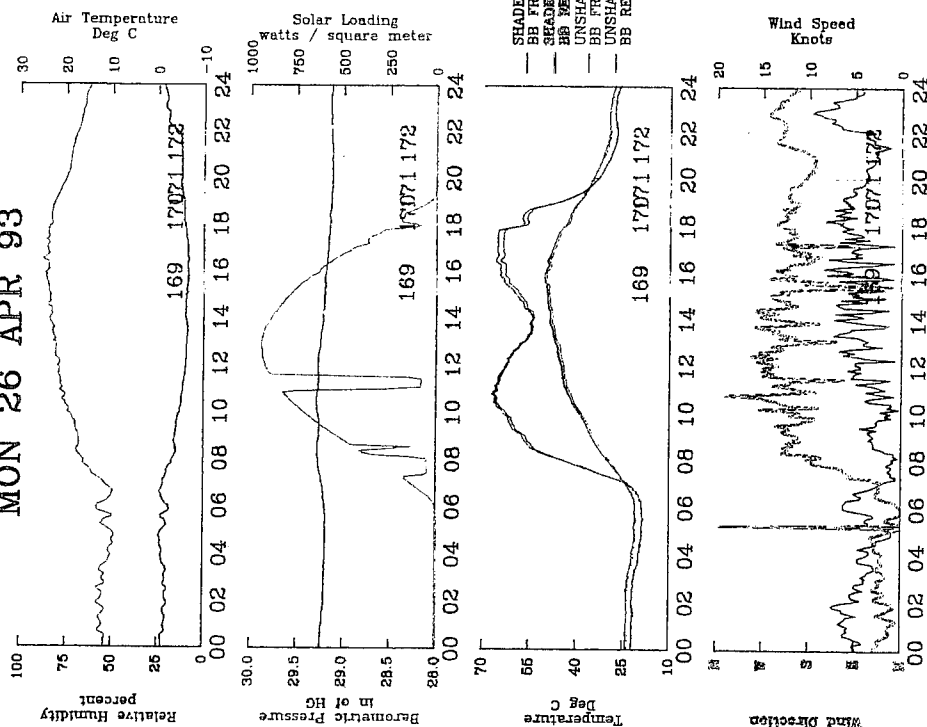
# Environmental Summary

SUN 25 APR 93



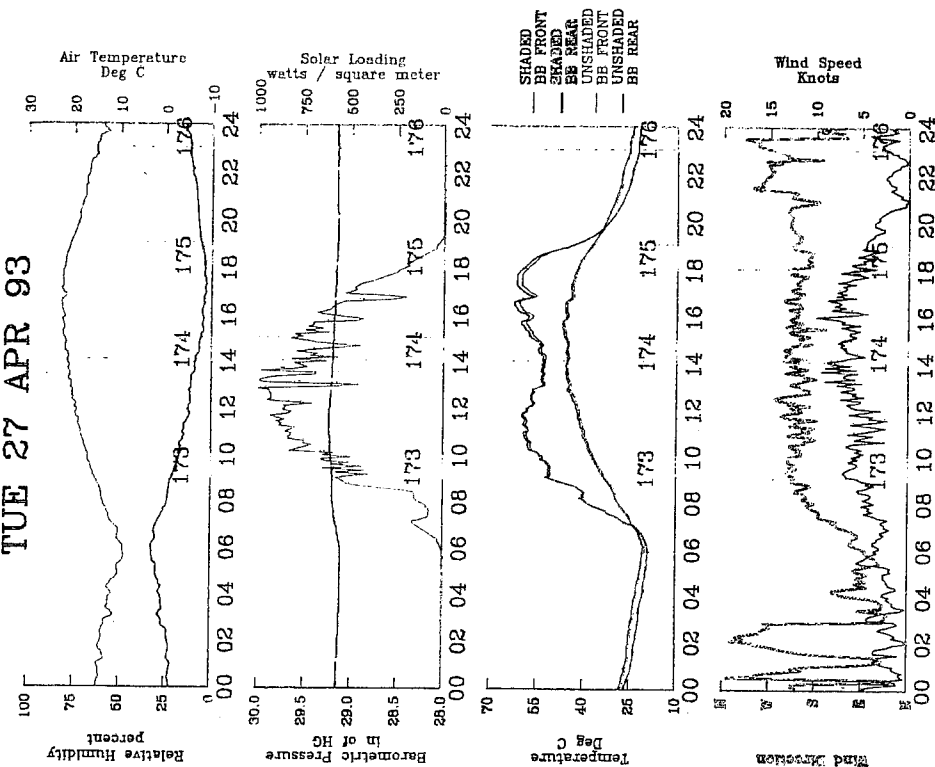
# Environmental Summary

MON 26 APR 93



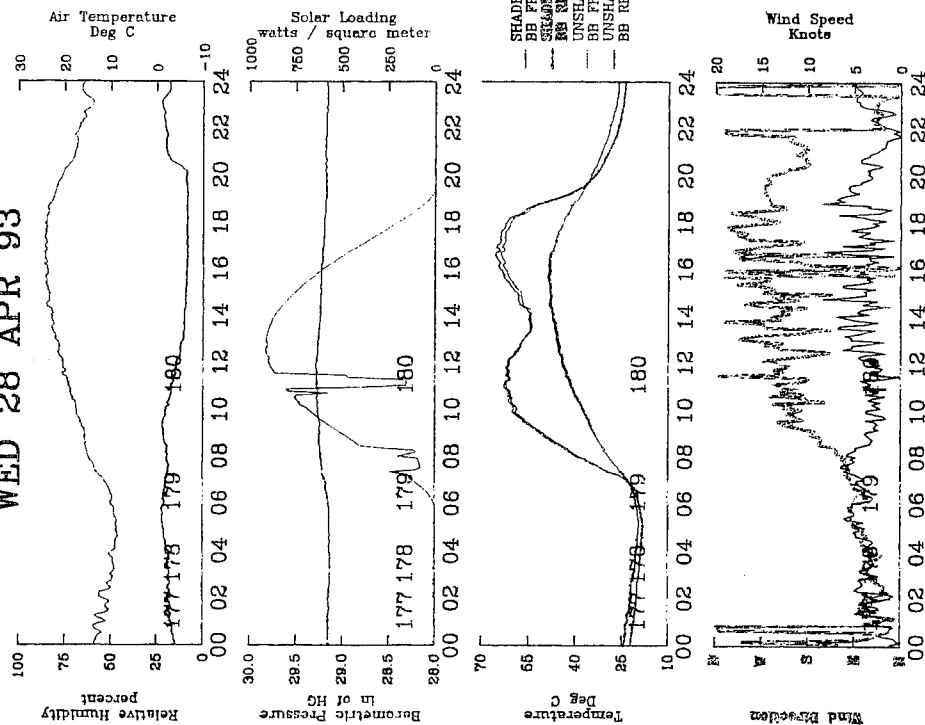
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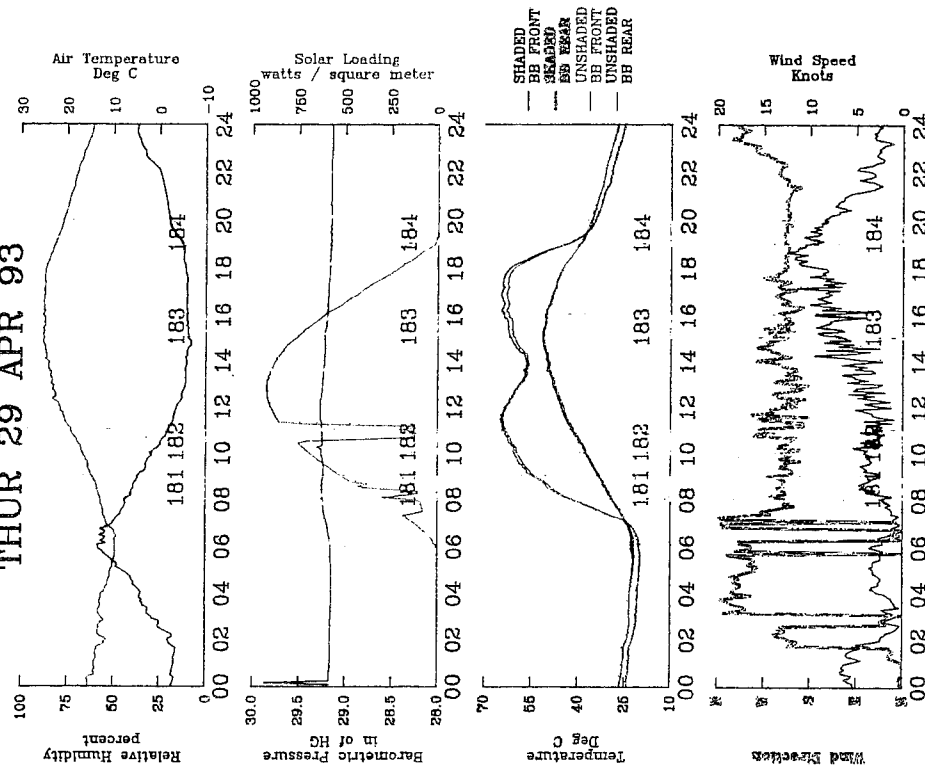
# Environmental Summary

WED 28 APR 93



# Environmental Summary

THUR 29 APR 93



# Environmental Summary

FRI 30 APR 93

